YAMAHA

ELECTRONIC PIANO

PF-1000

Data List
Daten-Liste
Liste des données
Lista de datos

Voice List / Voice-Liste / Liste des voix / Lista de voces

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number
			MSB	LSB	
PIANO & HARPSI.	GrandPiano1	Natural!	0	122	0
	GrandPiano2	Natural!	0	122	1
	Piano&Str	Natural!	0	125	0
	RockPiano	Natural!	0	124	2
	Oct.Piano1	Natural!	0	123	3
	Harpsichrd8'	Natural!	0	122	6
	Hc8'+4'	Natural!	0	123	6
	Harpsi&Str	Natural!	0	124	6
	Piano&EP	Natural!	0	122	2
	Oct.Piano2	Natural!	0	124	3
	BrightPiano	Natural!	0	123	0
	MellowPiano	Natural!	0	124	0
	HonkyTonk	Natural!	0	122	3
	Grand Piano	-	0	112	0
	BrightPiano	-	0	112	1
	Rock Piano	-	0	114	2
	Midi Grand	-	0	112	2
	Honky Tonk	-	0	112	3
	Oct Piano 1	-	0	113	3
	Oct Piano 2	-	0	114	3
	Harpsichord	-	0	112	6
	GrandHarpsi	-	0	113	6
	CP 80	-	0	113	2
E.PIANO	DX EP	Natural!	0	122	5
	DX Bright EP	Natural!	0	123	5
	E.Piano	Natural!	0	122	4
	Tremolo EP	Natural!	0	124	4
	Funky EP	Natural!	0	123	4
	Galaxy EP	-	0	114	4
	Stage EP	-	0	117	4
	E.Piano	Cool!	0	119	4
	Clavi	-	0	112	7
	Wah Clavi	-	0	113	7
	Polaris EP	-	0	115	4
	Jazz Chorus	-	0	118	5
	Hyper Tines	-	0	113	5
	Phase EP	-	0	120	4
	New Tines	-	0	116	5
	Funk EP	-	0	112	4
	DX Modern	-	0	112	5
	Vintage EP	-	0	116	4
	Venus EP	-	0	114	5
	Modern EP	-	0	115	5
	Tremolo EP	-	0	113	4
	Super DX	-	0	117	5
	Suitcase EP	-	0	118	4
ORGAN & ACCORDION	PipeOrganP	Natural!	0	123	19
	Pipe Organ	-	0	112	19
	ChapelOrgn1	-	0	113	19
	ChapelOrgn2	-	0	114	19
	ChapelOrgn3	-	0	115	19
	Rotor Organ	-	0	117	18
	Rock Organ1	-	0	112	18
	Dance Organ	-	0	113	17
	Gospel Org	-	0	119	16
	Purple Org	-	0	114	18
	Jazz Organ1	-	0	112	16
	Rock Organ2	-	0	113	18
	RotaryDrive	-	0	116	18
	Full Rocker	-	0	115	18
	Elec.Organ	-	0	118	17
	DrawbarOrg	-	0	115	16
	Click Organ	-	0	112	17
	Mellow Draw	-	0	115	17
	Jazz Organ2	-	0	113	16
	Bright Draw	-	0	116	16
	60's Organ	-	0	116	17
	Blues Organ	-	0	117	17
	16+1 Organ	-	0	121	16
	16+2 Organ	-	0	122	16
	16+4 Organ	-	0	123	16
	Jazz Organ3	-	0	120	16
	TheatreOrg1	-	0	114	16
	TheatreOrg2	-	0	114	17
	Reed Organ	-	0	112	20
	Bandoneon	-	0	113	23
	Musette	-	0	112	21
	Tutti Accrd	-	0	113	21
	Small Accrd	-	0	115	21
	Accordion	-	0	116	21
	Tango Accrd	-	0	112	23

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number
			MSB	LSB	
ORGAN & ACCORDION	Soft Accrd	-	0	114	21
	Modern Harp	-	0	113	22
	Blues Harp	-	0	114	22
	Harmonica	-	0	112	22
PERCUSSION	Vibraphone	Natural!	0	122	11
	TremoloVibes	Natural!	0	124	11
	Marimba	-	0	112	12
	Xylophone	-	0	112	13
	Steel Drums	-	0	112	114
	Celesta	-	0	112	8
	Glocken	-	0	112	9
	Music Box	-	0	112	10
	TubularBell	-	0	112	14
	Kalimba	-	0	112	108
	Vibraphone	-	0	112	11
	Jazz Vibes	-	0	113	11
	Dulcimer	-	0	112	15
	Timpani	-	0	112	47
	Standard Kit1	Drums	127	0	0
	Standard Kit2	Drums	127	0	1
	Hit Kit	Drums	127	0	4
	Room Kit	Drums	127	0	8
	Rock Kit	Drums	127	0	16
	Electro Kit	Drums	127	0	24
	Analog Kit	Drums	127	0	25
	Dance Kit	Drums	127	0	27
	Jazz Kit	Drums	127	0	32
	Brush Kit	Drums	127	0	40
	Symphony Kit	Drums	127	0	48
	Arabic Kit	SFX Kit	126	0	35
	SFX Kit1	SFX Kit	126	0	0
	SFX Kit2	SFX Kit	126	0	1
	Sty Std.Kit	Drums	127	0	80
	Sty BrushKit	Drums	127	0	82
GUITAR	Nylon Guitar	-	0	115	24
	E.Guitar	Cool!	0	114	28
	12StrGuitar	-	0	113	25
	SolidGuitar	-	0	118	27
	Vintage Amp	-	0	115	29
	PedalSteel	-	0	125	27
	Crunch Gtr	-	0	113	30
	Funk Guitar	-	0	113	28
	60's Clean	-	0	117	27
	VintageOpen	-	0	123	27
	Folk Guitar	-	0	112	25
	Solid Chord	-	0	121	27
	VintageMute	-	0	115	28
	Lead Guitar	-	0	114	29
	Chorus Gtr	-	0	124	27
	VintageTrem	-	0	120	27
	Spanish Gtr	-	0	113	24
	Octave Gtr	-	0	113	26
	Deep Chorus	-	0	114	27
	CampfireGtr	-	0	115	25
	SmoothNylon	-	0	114	24
	Tremolo Gtr	-	0	113	27
	HawaiianGtr	-	0	114	26
	Heavy Stack	-	0	114	30
	BrightClean	-	0	116	27
	Wah Guitar	-	0	122	27
	Classic Gtr	-	0	112	24
	Distortion	-	0	112	30
	Elec.12Str	-	0	119	27
	FeedbackGtr	-	0	113	29
	Mandolin	-	0	114	25
	CleanGuitar	-	0	112	27
	MutedGuitar	-	0	112	28
	Jazz Guitar	-	0	112	26
	Overdrive	-	0	112	29
	FolkGw_pick1	-	0	116	25
	FolkGw_pick2	-	0	117	25
	FolkGw_pick3	-	0	118	25
BASS	Finger Bass	-	0	112	33
	UprightBass	-	0	113	32
	Pick Bass	-	0	112	34
	SuperFretles	-	0	113	35
	Slap Bass	-	0	112	36
	Analog Bass	-	0	112	39
	DrySynBass	-	0	116	39
	Touch Bass	-	0	115	39
	Hi Q Bass	-	0	113	38

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number
			MSB	LSB	
BASS	Funk Bass	-	0	112	37
	Aco.Bass	-	0	112	32
	Fretless	-	0	112	35
	Bass&Cymbal	-	0	114	32
	Fusion Bass	-	0	113	36
	Rave Bass	-	0	114	38
	Dance Bass	-	0	113	39
	Synth Bass	-	0	112	38
	Snap Bass	-	0	114	39
	Click Bass	-	0	115	38
BRASS	Trumpet	Sweet!	0	115	56
	Trombone	Sweet!	0	117	57
	Muted Trump	-	0	112	59
	Flugel Horn	-	0	113	56
	SoftTrumpet	-	0	114	56
	BrassSection	-	0	112	61
	MellowBrass	-	0	116	61
	BigBandBrs	-	0	113	61
	Pop Brass	-	0	118	61
	Brass Combo	-	0	115	66
	SoloTrumpet	-	0	112	56
	Solo Tromb	-	0	112	57
	JazzTrumpet	-	0	116	56
	French Horn	-	0	112	60
	Air Trumpet	-	0	117	56
	Step Brass	-	0	124	61
	BrightBrass	-	0	120	61
	Soft Brass	-	0	123	61
	Full Horns	-	0	114	61
	High Brass	-	0	115	61
	Trumpet Ens	-	0	122	61
	Trombone	-	0	116	57
	Soft Tromb	-	0	115	57
	MellowTromb	-	0	114	57
	SmoothTromb	-	0	118	57
	MellowHorns	-	0	119	61
	BallroomBrs	-	0	113	59
	Trb.Section	-	0	113	57
	Small Brass	-	0	117	61
	Brass Hit	-	0	126	61
	80's Brass	-	0	113	62
	Analog Brs	-	0	112	63
	Soft Analog	-	0	114	63
	FunkyAnalog	-	0	115	62
	TechnoBrass	-	0	114	62
	Synth Brass	-	0	112	62
	Ober Brass	-	0	113	63
	Tuba	-	0	112	58
WOODWIND	Tenor Sax	Sweet!	0	117	66
	Alto Sax	Sweet!	0	114	65
	Soprano Sax	Sweet!	0	113	64
	Clarinet	Sweet!	0	114	71
	Growl Sax	-	0	118	66
	Flute	Sweet!	0	114	73
	Pan Flute	Sweet!	0	113	75
	Oboe	-	0	112	68
	EnglishHorn	-	0	112	69
	BaritoneSax	-	0	112	67
	BreathTenor	-	0	114	66
	BreathyAlto	-	0	113	65
	Soprano Sax	-	0	112	64
	Clarinet	-	0	112	71
	Bassoon	-	0	112	70
	Class.Flute	-	0	115	73
	Pan Flute	-	0	113	73
	Piccolo	-	0	112	72
	EthnicFlute	-	0	112	75
	Rock Bari	-	0	113	67
	Tenor Sax	-	0	112	66
	Alto Sax	-	0	112	65
	MelClarinet	-	0	113	71
	Flute	-	0	112	73
	Shakuhachi	-	0	112	77
	Whistle	-	0	112	78
	Recorder	-	0	112	74
	Ocarina	-	0	112	79
	WoodwindEns	-	0	113	66
	Sax Section	-	0	116	66
	Bagpipe	-	0	112	109
STRINGS	Orchestra	Live!	0	116	49
	OrchStrings	-	0	113	48

Category	Voice Name	Voice Type	Bank Select		MIDI Program Number
			MSB	LSB	
STRINGS	Symphon.Str	-	0	114	48
	Strings	-	0	112	48
	SlowStrings	-	0	113	49
	ChamberStrs	-	0	112	49
	Syn Strings	-	0	112	50
	Orch. Brass	-	0	118	49
	Orch. Flute	-	0	119	49
	Orch. Oboe	-	0	121	49
	Solo Violin	-	0	112	40
	Soft Violin	-	0	113	40
	Fiddle	-	0	112	110
	Viola	-	0	112	41
	Cello	-	0	112	42
	Contrabass	-	0	112	43
	Str.Quartet	-	0	114	49
	Bow Strings	-	0	116	48
	MarcatoStrs	-	0	115	49
	TremoloStrs	-	0	112	44
	ConcertoStr	-	0	115	48
	PizzStrings	-	0	112	45
	Analog Strs	-	0	112	51
	TechStrings	-	0	113	50
	Harp	-	0	112	46
	Hackbrett	-	0	113	46
	Banjo	-	0	112	105
	Sitar	-	0	112	104
	Koto	-	0	112	107
	Shamisen	-	0	112	106
	Orch.Hit	-	0	112	55
CHOIR & PAD	Hah Choir	-	0	114	52
	Gothic Vox	-	0	113	53
	Vocal Ensbl	-	0	113	52
	Vox Humana	-	0	112	53
	Choir	-	0	112	52
	Air Choir	-	0	112	54
	SweetHeaven	-	0	118	88
	Insomnia	-	0	113	94
	Cyber Pad	-	0	113	99
	Fantasia	-	0	112	88
	Wave 2001	-	0	112	95
	Neo WarmPad	-	0	115	89
	Atmosphere	-	0	112	99
	Xenon Pad	-	0	112	91
	Equinox	-	0	112	94
	DX Pad	-	0	112	92
	Symbiont	-	0	113	88
	Stargate	-	0	114	88
	Area 51	-	0	112	89
	Dark Moon	-	0	113	89
	Ionosphere	-	0	115	94
	Golden Age	-	0	115	88
	Solaris	-	0	114	94
	Millennium	-	0	117	88
	Transform	-	0	113	95
	Dunes	-	0	114	89
SYNTH.	Oxygen	-	0	122	81
	Matrix	-	0	123	81
	Wire Lead	-	0	120	81
	Hip Lead	-	0	113	80
	Square Lead	-	0	112	80
	Saw.Lead	-	0	112	81
	Fire Wire	-	0	116	81
	Analogon	-	0	115	81
	Funky Lead	-	0	121	81
	Fargo	-	0	119	81
	Portatone	-	0	112	84
	Blaster	-	0	114	81
	Big Lead	-	0	113	81
	Warp	-	0	117	81
	Adrenaline	-	0	113	84
	Tiny Lead	-	0	118	80
	Stardust	-	0	112	98
	Aero Lead	-	0	112	83
	Mini Lead	-	0	114	80
	Synth Flute	-	0	119	80
	Sub Aqua	-	0	118	81
	Sun Bell	-	0	113	98
	Under Heim	-	0	112	87
	Hi Bias	-	0	116	80
	Vinylead	-	0	115	80
	Skyline	-	0	115	84

XG

Category	Voice Type	Bank Select		MIDI Program Number
		MSB	LSB	
PIANO	Grand Piano	0	0	0
	GrndPianoKSP	0	1	0
	MellowGrPno	0	18	0
	PianoStrings	0	40	0
	Dream	0	41	0
	Bright Piano	0	0	1
	BritePnoKSP	0	1	1
	ElecGrandPno	0	0	2
	ElecGrPnoKSP	0	1	2
	Detuned CP80	0	32	2
	Layered CP 1	0	40	2
	Layered CP 2	0	41	2
	Honkytonk	0	0	3
	HonkytonkKSP	0	1	3
	El.Piano 1	0	0	4
	El.Piano1KSP	0	1	4
	Mellow EP 1	0	18	4
	Chorus EP 1	0	32	4
	HardEl.Piano	0	40	4
	VXfade El.P1	0	45	4
	60sEl.Piano1	0	64	4
	El.Piano 2	0	0	5
	El.Piano2KSP	0	1	5
	Chorus EP 2	0	32	5
	DX EP Hard	0	33	5
	DX Legend	0	34	5
	DX Phase EP	0	40	5
	DX+AnalogEP	0	41	5
	DX Koto EP	0	42	5
	VXfade El.P2	0	45	5
	Harpsichord	0	0	6
	Harpsi.KSP	0	1	6
	Harpsichord2	0	25	6
	Harpsichord3	0	35	6
	Clavi.	0	0	7
	Clavi.KSP	0	1	7
	Clavi.Wah	0	27	7
	Pulse Clavi.	0	64	7
	PierceClavi.	0	65	7
CHROMATIC PERC	Celesta	0	0	8
	Glockenspiel	0	0	9
	Music Box	0	0	10
	Orgel	0	64	10
	Vibraphone	0	0	11
	Vibes KSP	0	1	11
	Hard Vibes	0	45	11
	Marimba	0	0	12
	Marimba KSP	0	1	12
	Sine Marimba	0	64	12
	Balimba	0	97	12
	Log Drums	0	98	12
	Xylophone	0	0	13
	TubularBells	0	0	14
	Church Bells	0	96	14
	Carillon	0	97	14
	Dulcimer	0	0	15
	Dulcimer 2	0	35	15
	Cimbalom	0	96	15
	Santur	0	97	15
ORGAN	DrawbarOrgan	0	0	16
	DetDrawOrgan	0	32	16
	60sDrawOrg1	0	33	16
	60sDrawOrg2	0	34	16
	70sDrawOrg1	0	35	16
	DrawbarOrg2	0	36	16
	60sDrawOrg3	0	37	16
	Even Bar Org	0	38	16
	16+2'2_3 Org	0	40	16
	Organ Bass	0	64	16
	70sDrawOrg2	0	65	16
	Cheezy Organ	0	66	16
	DrawbarOrg3	0	67	16
	Perc.Organ	0	0	17
	70sPercOrg1	0	24	17
	DetPercOrgan	0	32	17
	Light Organ	0	33	17
	Perc.Organ2	0	37	17
	Rock Organ	0	0	18
	Rotary Organ	0	64	18
	Slow Rotary	0	65	18

Category	Voice Type	Bank Select		MIDI Program Number
		MSB	LSB	
ORGAN	Fast Rotary	0	66	18
	Church Organ	0	0	19
	ChurchOrgan3	0	32	19
	ChurchOrgan2	0	35	19
	Notre Dame	0	40	19
	Organ Flute	0	64	19
	Trem.OrganFl	0	65	19
	Reed Organ	0	0	20
	Puff Organ	0	40	20
	Accordion	0	0	21
	Accord It	0	32	21
	Harmonica	0	0	22
	Harmonica 2	0	32	22
	Tango Accord	0	0	23
	TangoAccord2	0	64	23
GUITAR	Nylon Guitar	0	0	24
	NylonGuitar2	0	16	24
	NylonGuitar3	0	25	24
	VelGtrHarmo	0	43	24
	Ukulele	0	96	24
	Steel Guitar	0	0	25
	SteelGuitar2	0	16	25
	12Str Guitar	0	35	25
	Nylon&Steel	0	40	25
	Steel&Body	0	41	25
	Mandolin	0	96	25
	Jazz Guitar	0	0	26
	MellowGuitar	0	18	26
	Jazz Amp	0	32	26
	Clean Guitar	0	0	27
	ChorusGuitar	0	32	27
	Muted Guitar	0	0	28
	FunkGuitar1	0	40	28
	MuteSteelGtr	0	41	28
	FunkGuitar2	0	43	28
	Jazz Man	0	45	28
	Overdriven	0	0	29
	Guitar Pinch	0	43	29
	Distortion	0	0	30
	FeedbackGtr	0	40	30
	FeedbackGtr2	0	41	30
	GtrHarmonics	0	0	31
	GtrFeedback	0	65	31
	GtrHarmonic2	0	66	31
BASS	AcousticBass	0	0	32
	Jazz Rhythm	0	40	32
	VXUprghtBass	0	45	32
	Finger Bass	0	0	33
	Finger Dark	0	18	33
	Flange Bass	0	27	33
	Bass&DistEG	0	40	33
	Finger Slap	0	43	33
	FingerBass2	0	45	33
	Mod.Bass	0	65	33
	Pick Bass	0	0	34
	MutePickBass	0	28	34
	FretlessBass	0	0	35
	Fretless 2	0	32	35
	Fretless 3	0	33	35
	Fretless 4	0	34	35
	Syn.Fretless	0	96	35
	SmthFretless	0	97	35
	Slap Bass 1	0	0	36
	ResonantSlap	0	27	36
	Punch Thumb	0	32	36
	Slap Bass 2	0	0	37
	Velo.Sw.Slap	0	43	37
	Synth Bass 1	0	0	38
	SynBass1Dark	0	18	38
	FastResoBass	0	20	38
	Acid Bass	0	24	38
	Clavi Bass	0	35	38
	Techno Bass	0	40	38
	Orbiter	0	64	38
	Square Bass	0	65	38
	Rubber Bass	0	66	38
	Hammer	0	96	38
	Synth Bass 2	0	0	39
	MellowSyBass	0	6	39
	SequenceBass	0	12	39

Category	Voice Type	Bank Select		MIDI Program Number
		MSB	LSB	
BASS	ClickSynBass	0	18	39
	SynBass2Dark	0	19	39
	SmoothSyBass	0	32	39
	ModulrSyBass	0	40	39
	DX Bass	0	41	39
	X Wire Bass	0	64	39
STRINGS	Violin	0	0	40
	SlwAtkViolin	0	8	40
	Viola	0	0	41
	Cello	0	0	42
	Contrabass	0	0	43
	Trem.Strings	0	0	44
	SlwAtTremStr	0	8	44
	SuspenseStr	0	40	44
	PizzicatoStr	0	0	45
	Orch.Harp	0	0	46
	Yang Chin	0	40	46
	Timpani	0	0	47
ENSEMBLE	Strings 1	0	0	48
	StereoStrngs	0	3	48
	SlwAtkStrngs	0	8	48
	Arco Strings	0	24	48
	60's Strings	0	35	48
	Orchestra	0	40	48
	Orchestra 2	0	41	48
	TremOrchstra	0	42	48
	Velo.Strings	0	45	48
	Strings 2	0	0	49
	S.SlowStrngs	0	3	49
	LegatoStrngs	0	8	49
	Warm Strings	0	40	49
	Kingdom	0	41	49
	70's Strings	0	64	49
	Strings 3	0	65	49
	SynStrings1	0	0	50
	Reso Strings	0	27	50
	SynStrings4	0	64	50
	SynStrings5	0	65	50
	SynStrings2	0	0	51
	Choir Aahs	0	0	52
	Stereo Choir	0	3	52
	Choir Aahs 2	0	16	52
	Mellow Choir	0	32	52
	ChoirStrings	0	40	52
	Voice Oohs	0	0	53
	Synth Voice	0	0	54
	SynthVoice2	0	40	54
	Choral	0	41	54
	Analog Voice	0	64	54
	OrchestraHit	0	0	55
	OrchestrHit2	0	35	55
	Impact	0	64	55
BRASS	Trumpet	0	0	56
	Trumpet 2	0	16	56
	BriteTrumpet	0	17	56
	Warm Trumpet	0	32	56
	Trombone	0	0	57
	Trombone 2	0	18	57
	Tuba	0	0	58
	Tuba 2	0	16	58
	MutedTrumpet	0	0	59
	French Horn	0	0	60
	Fr.Horn Solo	0	6	60
	FrenchHorn2	0	32	60
	HornOrchestr	0	37	60
	BrassSection	0	0	61
	Tp&TbSection	0	35	61
	BrassSect2	0	40	61
	High Brass	0	41	61
	Mellow Brass	0	42	61
	SynthBrass1	0	0	62
	Quack Brass	0	12	62
	ResoSynBrass	0	20	62
	Poly Brass	0	24	62
	SynthBrass3	0	27	62
	Jump Brass	0	32	62
	AnaVelBrass1	0	45	62
	AnalogBrass1	0	64	62
	SynthBrass2	0	0	63
	Soft Brass	0	18	63

Category	Voice Type	Bank Select		MIDI Program Number
		MSB	LSB	
BRASS	SynthBrass4	0	40	63
	Choir Brass	0	41	63
	AnaVelBrass2	0	45	63
	AnalogBrass2	0	64	63
REED	Soprano Sax	0	0	64
	Alto Sax	0	0	65
	Sax Section	0	40	65
	HyperAltoSax	0	43	65
	Tenor Sax	0	0	66
	BreathyTenor	0	40	66
	SoftTenorSax	0	41	66
	Tenor Sax2	0	64	66
	Baritone Sax	0	0	67
	Oboe	0	0	68
	English Horn	0	0	69
	Bassoon	0	0	70
	Clarinet	0	0	71
PIPE	Piccolo	0	0	72
	Flute	0	0	73
	Recorder	0	0	74
	Pan Flute	0	0	75
	Blown Bottle	0	0	76
	Shakuhachi	0	0	77
	Whistle	0	0	78
	Ocarina	0	0	79
SYNTH LEAD	Square Lead	0	0	80
	SquareLead2	0	6	80
	LM Square	0	8	80
	Hollow	0	18	80
	Shroud	0	19	80
	Mellow	0	64	80
	Solo Sine	0	65	80
	Sine Lead	0	66	80
	SawtoothLead	0	0	81
	SawtoothLd2	0	6	81
	Thick Saw	0	8	81
	Dynamic Saw	0	18	81
	Digital Saw	0	19	81
	Big Lead	0	20	81
	Heavy Synth	0	24	81
	Waspy Synth	0	25	81
	Pulse Saw	0	40	81
	Dr. Lead	0	41	81
	VelocityLead	0	45	81
	Seq.Analog	0	96	81
	CalliopeLead	0	0	82
	Pure Pad	0	65	82
	Chiff Lead	0	0	83
	Rubby	0	64	83
	Charang Lead	0	0	84
	DistortedLd	0	64	84
	Wire Lead	0	65	84
	Voice Lead	0	0	85
	Synth Aahs	0	24	85
	Vox Lead	0	64	85
	Fifths Lead	0	0	86
	Big Five	0	35	86
	Bass & Lead	0	0	87
	Big & Low	0	16	87
	Fat & Perky	0	64	87
	Soft Whirl	0	65	87
SYNTH PAD	New Age Pad	0	0	88
	Fantasy	0	64	88
	Warm Pad	0	0	89
	Thick Pad	0	16	89
	Soft Pad	0	17	89
	Sine Pad	0	18	89
	Horn Pad	0	64	89
	RotaryStrngs	0	65	89
	PolySynthPad	0	0	90
	Poly Pad 80	0	64	90
	Click Pad	0	65	90
	Analog Pad	0	66	90
	Square Pad	0	67	90
	Choir Pad	0	0	91
	Heaven	0	64	91
	Itopia	0	66	91
	CC Pad	0	67	91
	Bowed Pad	0	0	92
	Glacier	0	64	92

Category	Voice Type	Bank Select		MIDI Program Number
		MSB	LSB	
SYNTH PAD	Glass Pad	0	65	92
	Metallic Pad	0	0	93
	Tine Pad	0	64	93
	Pan Pad	0	65	93
	Halo Pad	0	0	94
	Sweep Pad	0	0	95
	Shwimmer	0	20	95
	Converge	0	27	95
	Polar Pad	0	64	95
	Celestial	0	66	95
SYNTH EFFECTS	Rain	0	0	96
	Clavi Pad	0	45	96
	Harmo Rain	0	64	96
	African Wind	0	65	96
	Carib	0	66	96
	Sound Track	0	0	97
	Prologue	0	27	97
	Ancestral	0	64	97
	Crystal	0	0	98
	SynthDr.Comp	0	12	98
	Popcorn	0	14	98
	Tiny Bells	0	18	98
	RoundGlocken	0	35	98
	GlockenChime	0	40	98
	Clear Bells	0	41	98
	Chorus Bells	0	42	98
	Synth Mallet	0	64	98
	Soft Crystal	0	65	98
	Loud Glocken	0	66	98
	ChristmasBel	0	67	98
	Vibe Bells	0	68	98
	DigitalBells	0	69	98
	Air Bells	0	70	98
	Bell Harp	0	71	98
	Gamelimba	0	72	98
	Atmosphere	0	0	99
	Warm Atmos.	0	18	99
	HollwRelease	0	19	99
	NylonElPiano	0	40	99
	Nylon Harp	0	64	99
	Harp Vox	0	65	99
	Atmos.Pad	0	66	99
	Planet	0	67	99
	Brightness	0	0	100
	FantasyBells	0	64	100
	Smokey	0	96	100
	Goblins	0	0	101
	GoblinsSynth	0	64	101
	Creeper	0	65	101
	Ring Pad	0	66	101
	Ritual	0	67	101
	To Heaven	0	68	101
	Night	0	70	101
	Glisten	0	71	101
	Bell Choir	0	96	101
	Echoes	0	0	102
	Echoes2	0	8	102
	Echo Pan	0	14	102
	Echo Bells	0	64	102
	Big Pan	0	65	102
	Synth Piano	0	66	102
	Creation	0	67	102
	Star Dust	0	68	102
	Reso&Panning	0	69	102
	Sci-Fi	0	0	103
	Starz	0	64	103
ETHNIC	Sitar	0	0	104
	DetunedSitar	0	32	104
	Sitar 2	0	35	104
	Tambra	0	96	104
	Tamboura	0	97	104
	Banjo	0	0	105
	Muted Banjo	0	28	105
	Rabab	0	96	105
	Gopichant	0	97	105
	Oud	0	98	105
	Shamisen	0	0	106
	Koto	0	0	107
	Taisho-kin	0	96	107
	Kanoon	0	97	107

Category	Voice Type	Bank Select		MIDI Program Number
		MSB	LSB	
ETHNIC	Kalimba	0	0	108
	Bagpipe	0	0	109
	Fiddle	0	0	110
	Shanai	0	0	111
	Shanai2	0	64	111
	Pungi	0	96	111
	Hichiriki	0	97	111
PERCUSSIVE	Tinkle Bell	0	0	112
	Bonang	0	96	112
	Altair	0	97	112
	GamelanGongs	0	98	112
	StereoGamlan	0	99	112
	Rama Cymbal	0	100	112
	Asian Bells	0	101	112
	Agogo	0	0	113
	Steel Drums	0	0	114
	Glass Perc.	0	97	114
	Thai Bells	0	98	114
	Woodblock	0	0	115
	Castanets	0	96	115
	Taiko Drum	0	0	116
	Gran Cassa	0	96	116
	Melodic Tom	0	0	117
	MelodicTom2	0	64	117
	Real Tom	0	65	117
	Rock Tom	0	66	117
	Synth Drum	0	0	118
	Analog Tom	0	64	118
	ElectroPerc.	0	65	118
	Rev.Cymbal	0	0	119
SOUND EFFECTS	GtrFretNoise	0	0	120
	Breath Noise	0	0	121
	Seashore	0	0	122
	Bird Tweet	0	0	123
	TelephonRing	0	0	124
	Helicopter	0	0	125
	Applause	0	0	126
	Gunshot	0	0	127
SFX	CuttingNoise	64	0	0
	CuttingNoiz2	64	0	1
	String Slap	64	0	3
	Fl.Key Click	64	0	16
	Shower	64	0	32
	Thunder	64	0	33
	Wind	64	0	34
	Stream	64	0	35
	Bubble	64	0	36
	Feed	64	0	37
	Dog	64	0	48
	Horse	64	0	49
	Bird Tweet 2	64	0	50
	Ghost	64	0	54
	Maou	64	0	55
	Phone Call	64	0	64
	Door Squeak	64	0	65
	Door Slam	64	0	66
	Scratch Cut	64	0	67
	ScratchSplit	64	0	68
	Wind Chime	64	0	69
	TelphonRing2	64	0	70
	CarEngineIgn	64	0	80
	CarTiresSqel	64	0	81
	Car Passing	64	0	82
	Car Crash	64	0	83
	Siren	64	0	84
	Train	64	0	85
	Jet Plane	64	0	86
	Starship	64	0	87
	Burst	64	0	88
	RollrCoaster	64	0	89
	Submarine	64	0	90
	Laugh	64	0	96
	Scream	64	0	97
	Punch	64	0	98
	Heartbeat	64	0	99
	FootSteps	64	0	100
	Machine Gun	64	0	112
	Laser Gun	64	0	113
	Explosion	64	0	114
	Firework	64	0	115

Drum/key Assignment List
Liste der Tastenzuordnungen der Schlaginstrumente
Liste d'assignation instrument de batterie/touche du clavier
Lista de asignación de teclas/batería

Bank Select MSB (0-127)					127	127	127	127	127	127	127	127
Bank Select LSB (0-127)					0	0	0	0	0	0	0	0
Program Change (0-127)					0	1	4	8	16	24	25	27
MIDI		Keyboard Note	Key Off	Alternate Group	Standard Kit1	Standard Kit2	Hit Kit	Room Kit	Rock Kit	Electro Kit	Analog Kit	Dance Kit
Note#	Note											
13	C#-1	(C#0)		3	Surdo Mute							
14	D-1	(D0)		3	Surdo Open							
15	D#-1	(D#0)			Hi Q							
16	E-1	(E0)			Whip Slap							
17	F-1	(F0)		4	Scratch H							
18	F#-1	(F#0)		4	Scratch L							
19	G-1	(G0)			Finger Snap							
20	G#-1	(G#0)			Click Noise							
21	A-1	(A0)			Metronome Click							
22	A#-1	(A#0)			Metronome Bell							
23	B-1	(B0)			Seq Click L							
24	C0	C1			Seq Click H							
25	C#0	C#1			Brush Tap							
26	D0	D1	O		Brush Swirl							
27	D#0	D#1			Brush Slap							
28	E0	E1	O		Brush Tap Swirl					Reverse Cymbal	Reverse Cymbal	Reverse Cymbal
29	F0	F1	O		Snare Roll							
30	F#0	F#1			Castanet					Hi Q 2	Hi Q 2	Hi Q 2
31	G0	G1			Snare Soft	Snare Soft 2	Snare Electro		Snare Noisy	Snare Snappy Electro	Snare Noisy 4	Snare Techno
32	G#0	G#1			Sticks							
33	A0	A1			Kick Soft		Kick Tight L			Kick 3	Kick 3	Kick Techno Q
34	A#0	A#1			Open Rim Shot	Open Rim Shot H Short	Snare Pitched					Rim Gate
35	B0	B1			Kick Tight		Kick Wet		Kick 2	Kick Gate	Kick Analog Short	Kick Techno L
36	C1	C2			Kick	Kick Short	Kick Tight H		Kick Gate	Kick Gate Heavy	Kick Analog	Kick Techno
37	C#1	C#2			Side Stick	Side Stick Light	Stick Ambient				Side Stick Analog	Side Stick Analog
38	D1	D2			Snare	Snare Short	Snare Ambient	Snare Snappy	Snare Rock	Snare Noisy 2	Snare Analog	Snare Clap
39	D#1	D#2			Hand Clap							
40	E1	E2			Snare Tight	Snare Tight H	Snare Tight 2	Snare Tight Snappy	Snare Rock Tight	Snare Noisy 3	Snare Analog 2	Snare Dry
41	F1	F2			Floor Tom L		Hybrid Tom 1	Tom Room 1	Tom Rock 1	Tom Electro 1	Tom Analog 1	Tom Analog 1
42	F#1	F#2		1	Hi-Hat Closed		Hi-Hat Closed 2				Hi-Hat Closed Analog	Hi-Hat Closed 3
43	G1	G2			Floor Tom H		Hybrid Tom 2	Tom Room 2	Tom Rock 2	Tom Electro 2	Tom Analog 2	Tom Analog 2
44	G#1	G#2		1	Hi-Hat Pedal		Hi-Hat Pedal 2				Hi-Hat Closed Analog 2	Hi-Hat Closed Analog 3
45	A1	A2			Low Tom		Hybrid Tom 3	Tom Room 3	Tom Rock 3	Tom Electro 3	Tom Analog 3	Tom Analog 3
46	A#1	A#2		1	Hi-Hat Open		Hi-Hat Open 2				Hi-Hat Open Analog	Hi-Hat Open 3
47	B1	B2			Mid Tom L		Hybrid Tom 4	Tom Room 4	Tom Rock 4	Tom Electro 4	Tom Analog 4	Tom Analog 4
48	C2	C3			Mid Tom H		Hybrid Tom 5	Tom Room 5	Tom Rock 5	Tom Electro 5	Tom Analog 5	Tom Analog 5
49	C#2	C#3			Crash Cymbal 1						Crash Analog	Crash Analog
50	D2	D3			High Tom		Hybrid Tom 6	Tom Room 6	Tom Rock 6	Tom Electro 6	Tom Analog 6	Tom Analog 6
51	D#2	D#3			Ride Cymbal 1							
52	E2	E3			Chinese Cymbal							
53	F2	F3			Ride Cymbal Cup							
54	F#2	F#3			Tambourine		Tambourine Light					
55	G2	G3			Splash Cymbal							
56	G#2	G#3			Cowbell						Cowbell Analog	Cowbell Analog
57	A2	A3			Crash Cymbal 2							
58	A#2	A#3			Vibraslap							
59	B2	B3			Ride Cymbal 2							
60	C3	C4			Bongo H							
61	C#3	C#4			Bongo L							
62	D3	D4			Conga H Mute						Conga Analog H	Conga Analog H
63	D#3	D#4			Conga H Open						Conga Analog M	Conga Analog M
64	E3	E4			Conga L						Conga Analog L	Conga Analog L
65	F3	F4			Timbale H							
66	F#3	F#4			Timbale L							
67	G3	G4			Agogo H							
68	G#3	G#4			Agogo L							
69	A3	A4			Cabasa							
70	A#3	A#4			Maracas						Maracas 2	Maracas 2
71	B3	B4	O		Samba Whistle H							
72	C4	C5	O		Samba Whistle L							
73	C#4	C#5			Guiro Short							
74	D4	D5	O		Guiro Long							
75	D#4	D#5			Claves						Claves 2	Claves 2
76	E4	E5			Wood Block H							
77	F4	F5			Wood Block L							
78	F#4	F#5			Cuica Mute					Scratch H 2	Scratch H 2	Scratch H 2
79	G4	G5			Cuica Open					Scratch L 2	Scratch L 2	Scratch L 2
80	G#4	G#5		2	Triangle Mute							
81	A4	A5		2	Triangle Open							
82	A#4	A#5			Shaker							
83	B4	B5			Jingle Bells							
84	C5	C6			Bell Tree							
85	C#5	(C#6)										
86	D5	(D6)										
87	D#5	(D#6)										
88	E5	(E6)										
89	F5	(F6)										
90	F#5	(F#6)										
91	G5	(G6)										

• Key Off: Keys marked "O" stop sounding the instant they are released.
• Alternate Group: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number

Same as Standard Kit 1

No Sound

Bank Select MSB (0-127)					127	127	127	127	127	126	126	126
Bank Select LSB (0-127)					0	0	0	0	0	0	0	0
Program Change (0-127)					32	40	48	80	82	35	0	1
MIDI		Keyboard Note	Key Off	Alternate Group	Jazz Kit	Brush Kit	Symphony Kit	Sty Std.Kit	Sty BrushKit	Arabic Kit	SFX Kit1	SFX Kit2
Note#	Note											
13	C#-1	(C#0)		3								
14	D-1	(D0)		3								
15	D#-1	(D#0)										
16	E-1	(E0)										
17	F-1	(F0)		4								
18	F#-1	(F#0)		4								
19	G-1	(G0)										
20	G#-1	(G#0)										
21	A-1	(A0)										
22	A#-1	(A#0)										
23	B-1	(B0)										
24	C0	C1								Nakarazan Dom		
25	C#0	C#1						Brush Tap Style Std	Brush Tap Style Brush	Cabasa		
26	D0	D1	O					Brush Swirl Style Std	Brush Swirl StyleBrush	Nakarazan Edge		
27	D#0	D#1						Brush Slap Style Std	Brush Slap Style Brush	Hager Dom		
28	E0	E1	O					BrushTapSwirlStyleStd	BrushTapSwirlStyleBrsh	Hager Edge		
29	F0	F1	O							Bongo H		
30	F#0	F#1								Bongo L		
31	G0	G1			Snare Jazz H	Brush Slap 2		Snare Soft Style Std	Snare Soft Style Brush	Conga H Mute		
32	G#0	G#1								Conga H Open		
33	A0	A1					Kick Soft 2	Kick Soft Style Std	Kick Soft Style Brush	Conga L		
34	A#0	A#1				Open Rim Shot Light		Open Rim Shot Style Std	OpenRimShot StyleBrush	Zagrouda H		
35	B0	B1					Gran Cassa	Kick Tight Style Std	Kick Tight Style Brush	Zagrouda L		
36	C1	C2			Kick Jazz	Kick Jazz	Gran Cassa Mute	Kick Style Std	Kick Style Brush	Kick Soft	Cutting Noise	Phone Call
37	C#1	C#2			Side Stick Light	Side Stick Light		Side Stick Style Std	Side Stick Style Brush	Side Stick	Cutting Noise 2	Door Squeak
38	D1	D2			Snare Jazz L	Brush Slap 3	Band Snare	Snare Style Std	Snare Style Brush	Snare Soft		Door Slam
39	D#1	D#2								Arabic Hand Clap	String Slap	Scratch Cut
40	E1	E2			Snare Jazz M	Brush Tap 2	Band Snare 2	Snare Tight Style Std	Snare Tight StyleBrush	Snare		Scratch H 3
41	F1	F2				Tom Brush 1		Floor Tom L Style Std	Floor Tom L StyleBrush	Floor Tom L		Wind Chime
42	F#1	F#2		1				Hi-Hat Closed StyleStd	Hi-HatClosedStyleBrush	Hi-Hat Closed		Telephone Ring 2
43	G1	G2				Tom Brush 2		Floor Tom H Style Std	Floor Tom H StyleBrush	Floor Tom H		
44	G#1	G#2		1				Hi-Hat Pedal Style Std	Hi-HatPedal StyleBrush	Hi-Hat Pedal		
45	A1	A2				Tom Brush 3		Low Tom Style Std	Low Tom Style Brush	Low Tom		
46	A#1	A#2		1				Hi-Hat Open Style Std	Hi-HatOpen StyleBrush	Hi-Hat Open		
47	B1	B2				Tom Brush 4		Mid Tom L Style Std	Mid Tom L Style Brush	Mid Tom L		
48	C2	C3				Tom Brush 5		Mid Tom H Style Std	Mid Tom H Style Brush	Mid Tom H		
49	C#2	C#3					Hand Cymbal	CrashCymbal 1 StyleStd	CrashCymbal1StyleBrush	Crash Cymbal 1		
50	D2	D3				Tom Brush 6		High Tom Style Std	High Tom Style Brush	High Tom		
51	D#2	D#3					Hand Cymbal Short	Ride Cymbal 1 StyleStd	RideCymbal1 StyleBrush	Ride Cymbal 1		
52	E2	E3						ChineseCymbal StyleStd	ChineseCymbalStyleBrsh	Crash Cymbal 2	Flute Key Click	Car Engine Ignition
53	F2	F3						RideCymbalCup StyleStd	RideCymbalCupStyleBrsh	Duhulla Dom		Car Tires Squeal
54	F#2	F#3								Tambourine		Car Passing
55	G2	G3						Splash Cymbal StyleStd	SplashCymbalStyleBrush	Duhulla Tak		Car Crash
56	G#2	G#3								Cowbell		Siren
57	A2	A3					Hand Cymbal 2	CrashCymbal 2 StyleStd	CrashCymbal2StyleBrush	Duhulla Sak		Train
58	A#2	A#3								Claves		Jet Plane
59	B2	B3					Hand Cymbal 2 Short	Ride Cymbal 2 StyleStd	RideCymbal2 StyleBrush	Doff Dom		Starship
60	C3	C4								Katem Dom		Burst
61	C#3	C#4								Katem Tak		Roller Coaster
62	D3	D4								Katem Sak		Submarine
63	D#3	D#4								Katem Tak		
64	E3	E4								Doff Tak		
65	F3	F4								Tabla Dom		
66	F#3	F#4								Tabla Tak1		
67	G3	G4								Tabla Tik		
68	G#3	G#4								Tabla Tak2	Shower	Laugh
69	A3	A4								Tabla Sak	Thunder	Scream
70	A#3	A#4								Tabla Roll of Edge	Wind	Punch
71	B3	B4	O							Tabla Flam	Stream	Heart Beat
72	C4	C5	O							Sagat 1	Bubble	Foot Steps
73	C#4	C#5								Tabel Dom	Feed	
74	D4	D5	O							Sagat 3		
75	D#4	D#5								Tabel Tak		
76	E4	E5								Sagat 2		
77	F4	F5								Rik Dom		
78	F#4	F#5								Rik Tak 2		
79	G4	G5								Rik Finger 1		
80	G#4	G#5		2						Rik Tak 1		
81	A4	A5		2						Rik Finger 2		
82	A#4	A#5								Rik Brass Tremolo		
83	B4	B5								Rik Sak		
84	C5	C6								Rik Tik	Dog	Machine Gun
85	C#5	(C#6)									Horse	Laser Gun
86	D5	(D6)									Bird Tweet 2	Explosion
87	D#5	(D#6)										Firework
88	E5	(E6)										
89	F5	(F6)										
90	F#5	(F#6)									Ghost	
91	G5	(G6)									Maou	

Style List / Liste der Styles / Liste des styles / Lista de estilos

Category	Style Name
POP & ROCK	HeartBeat
	60'sGtrPop
	60's8Beat
	8Beat1
	8Beat2
	OffBeat
	60'sRock1
	60'sRock2
	Rock+HalfTime
	RockShuffle
	RootRock
	8BeatRock
	SynthRock
	PopShuffle1
	PopShuffle2
	GuitarPop
	16BtUptempo
	KoolShuffle
	FunkyFusion
	JazzRock
POP BALLADS	8BeatModern
	MovieBallad
	SecretService
	OrganBallad
	Unplugged
	8BeatAdria
	PianoBallad
	RomanticBallad
	RomanticPiano
	LoveSong
	AcousticBallad
	6-8ModernEP
	6-8Orchestral
	6-8SlowRock1
	6-8SlowRock2
	16Beat
	PopBallad
	16BeatBallad1
	16BeatBallad2
	SlowBallad
	Slow&Easy
	AnalogBallad
	R&B
	J-16Ballad
	RockBallad
	J-Ballad1
	J-Ballad2
	8BeatPiano
	Piano16Beat
	NewAge
DANCE	EuroTrance
	Ibiza
	HouseMusik
	SwingHouse
	Clubdance
	ClubLatin
	Garage1
	TechnoParty
	UKPop
	DanceGroove
	HipHopGroove
	HipHopLight
	DanceShuffle
	HipHopPop
	80'sDance
	70'sDisco1
	70'sDisco2
	70'sDisco3
	LatinDisco
	SaturdayNight
	DiscoChocolate
	DiscoHands
	DiscoFunk
	DiscoParty
	DiscoFox
	FunkyDisco
	DiscoVenus
SWING & JAZZ	BigBandFast1
	BigBandMid1
	JungleDrum
	40'sBigBand
	OrchBallad
	BigBandFast2
	BigBandMid2
	CatGroove
	BigBandBallad
	MidnightSwing
	MoonlightBallad

Category	Style Name
SWING & JAZZ	MoviePanther
	BigBandShfl1
	BigBandShfl2
	JazzClub
	Swing1
	Swing2
	Five-Four
	JazzPiano1
	Bebop
	JazzBallad1
	LoungePiano
	GypsySwing
	ElectricJazz
	Charleston
	Dixieland1
	Dixieland2
	Ragtime1
	StrideSwing
	PianoShuffle
R & B	Soul
	DetroitPop1
	Twist
	60'sRock&Roll
	Swingin'Boogie
	GospelBrothers
	6-8Soul
	CrocoTwist
	Rock&Roll
	SoulBeat
	DetroitPop2
	SoulShuffle
	ComboTwist
	BoogieWoogie
	6-8Blues
	BluesPiano1
	BluesPiano2
	BluesBallad
	BlueberryBlues
	AmazingGospel
	ComboBoogie
	4-4Blues
	BluesShuffle
	16BeatFunk
	CoolFunk
COUNTRY	Country8Beat1
	CountryPop1
	CountryRock
	CntrySing-along
	CountrySwing1
	CountryWaltz
	ModCntryPop
	CountryBallad
	Country2-4
	CowboyBoogie
	Country8Beat2
	CountryPop2
	FolkRock
	CntryBrothers
	CountryShuffle
	Bluegrass1
	Hoedown
	FingerPickin
	CntryTwoStep
	CountrySlide
LATIN	BrazilianSamba
	PopSamba
	BossaNova
	PopBossa1
	SlowBossa
	BigBandMambo
	BigBandSalsa
	Tijuana
	DiscoLatin
	RockChaCha
	FastBossa
	GuitarBossa1
	GuitarBossa2
	ComboSamba
	Beguine
	Mambo1
	Salsa
	Montuno
	AfroCuban
	ComboRumba
	GypsyRumba
	RmbFlamenca
	RumbaIsland
	Carnival

Category	Style Name
LATIN	Caribbean
	HappyReggae
	JumboReggae
MARCH & WORLD	USMarch
	6-8March
	ChildrensMarch
	GermanMarch1
	BandMarch
	Showtune
	PolkaPop
	OberPolka
	ScottishReel
	Jig
	Hawaiian
	Tarantella
	LimboRock
	HullyGully
	Enka1
	Enka2
	PopEnka
	JapaneseFolk
	ChristmasWaltz
	ChristmasSwing
WALTZ	GuitarSerenade
	SwingWaltz
	PopWaltz
	JazzWaltz1
	JazzWaltz2
	OberWalzer
	Musette
	FrenchMusette
	ClassicWaltz
	MidnightWaltz
BALLROOM	VienneseWaltz
	EnglishWaltz
	Slowfox
	Foxtrot
	Quickstep
	OrgQuickstep
	Tango1
	Tango2
	Swingfox
	Pasodoble
	Samba
	ChaChaCha
	Rumba
	Jive
PIANIST	Stride1
	Stride2
	PianoSwing1
	PianoSwing2
	PianoSwing3
	PianoRag1
	PianoRag2
	Arpeggio1
	Arpeggio2
	Arpeggio3
	PianoOrchBld
	Musical
	Traditional1
	Traditional2
	Traditional3
	PianoBoogie
	PianoRock&Roll
	SlowRock
	2BeatSwing
	JazzBallad2
	8Beat
	8BeatBallad1
	8BeatBallad2
	4Stroke
	Nocturne
	PianoMarch1
	PianoMarch2
	6-8PianoMarch
	Waltz
	JazzWaltz
	PianoBossa
	PianoSamba
	PianoChaCha
	PianoBeguine
	PianoRumba
	SlowWaltz

Effect Type List / Liste der Effekttypen / Liste des types d'effet / Lista de tipos de efecto

■ Effect Type (for Natural Voices)

Reverb	Chorus	DSP	Brilliance
ROOM	CHORUS	DELAY LCR	DARK
HALL 1	CELESTE	DELAY LR	MELLOW
HALL 2	FLANGER	ECHO	NORMAL
STAGE		CRS-DELAY	BRIGHT
PLATE		SYMPHONIC	METALLIC
		ROTARY SP	
		TREMOLO	
		VIB ROTER	
		AUTO PAN	
		PHASER	
		AUTO WAH	
		PIANO REV	
		NO EFFECT	

■ XG Effect Type

❍ Reverb Type

Effect Name	Type MSB	Type LSB
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
WHITE ROOM	16	0
TUNNEL	17	0
CANYON	18	0
BASEMENT	19	0
NO EFFECT	0	0

❍ Chorus Type

Effect Name	Type MSB	Type LSB
CHORUS1	66	17
CHORUS2	66	8
CHORUS3	66	16
CHORUS4	66	1
CHORUS5	65	2
CHORUS6	65	0
CHORUS7	65	1
CHORUS8	65	8
CELESTE1	66	0
CELESTE2	66	2
FLANGER1	67	8
FLANGER2	67	16
FLANGER3	67	17
FLANGER4	67	1
FLANGER5	67	0
NO EFFECT	0	0

Variation

Effect Name	Type MSB	Type LSB
HALL1	1	0
HALL2	1	16
HALL3	1	17
HALL4	1	18
HALL5	1	1
ROOM1	2	16
ROOM2	2	17
ROOM3	2	18
ROOM4	2	19
ROOM5	2	0
ROOM6	2	1
ROOM7	2	2
STAGE1	3	16
STAGE2	3	17
STAGE3	3	0
STAGE4	3	1
PLATE1	4	16
PLATE2	4	17
PLATE3	4	0
CHORUS1	66	17
CHORUS2	66	8
CHORUS3	66	16
CHORUS4	66	1
CHORUS5	65	2
CHORUS6	65	0
CHORUS7	65	1
CHORUS8	65	8
CELESTE1	66	0
CELESTE2	66	2
SYMPHONIC1	68	16
SYMPHONIC2	68	0
KARAOKE1	20	0
KARAOKE2	20	1
KARAOKE3	20	2
ER1	9	0
ER2	9	1
GATE REVERB	10	0
REVERS GATE	11	0
EQ DISCO	76	16
EQ TEL	76	17
2BAND EQ	77	0
3BAND EQ	76	0
FLANGER1	67	8
FLANGER2	67	16
FLANGER3	67	17
FLANGER4	67	1
FLANGER5	67	0
DELAY LCR1	5	16
DELAY LCR2	5	0
DELAY LR	6	0
ECHO	7	0
CROSS DELAY	8	0
DIST HEAVY	73	0
OVERDRIVE	74	0
DIST HARD (DISTORTION HARD)	75	16
DIST HARD2	75	22
DIST HARD3	75	25
DIST SOFT (DISTORTION SOFT)	75	17
DIST SOFT2	75	23
AMP SIM (AMP SIMULATOR)	75	0
ST AMP2	75	21
ST AMP3	75	24
PHASER1	72	0
PHASER2	72	8
EP PHASER1	72	17
EP PHASER2	72	16
ROTARY SP1	69	16
ROTARY SP2	71	17
ROTARY SP3	71	18
ROTARY SP4	70	17
ROTARY SP5	66	18
ROTARY SP6	69	0
ROTARY SP7	71	22
ROTARY SP8	69	17
ROTARY SP9	66	19
ROTARY SP10	71	25
AUTO PAN1	71	16
AUTO PAN2	71	0
AUTO PAN3	71	23
EP AUTOPAN	71	21
EP AUTOPAN2	71	24
TREMOLO1	70	16
TREMOLO2	71	19
TREMOLO3	70	0
TREMOLO4	70	20
EP TREMOLO	70	18
EP TREMOLO2	70	21
GT TREMOLO1	71	20
AUTO WAH1	78	16
AUTO WAH2	78	0
AUTO WAH3	78	19
AUTO WAH4	78	20
THRU	64	0

Effect Parameter List / Liste der Effektparameter
Liste des paramètres d’effets / Lista de parámetros de efectos

Parameters marked with a ● in the Control column can be controlled from an AC1 (assignable controller 1) etc. However, this is valid only for a Variation effect (when selected for Insertion).

Effect Name **TypeMSB (Type LSB)**

HALL1, HALL2 MSB = 01
ROOM1, ROOM2, ROOM3 MSB = 02
STAGE1, STAGE2 MSB = 03
PLATE MSB = 04

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3-30.0s	0-69	table#4	
2	Diffusion	0-10	0-10		
3	Initial Delay	0.1mS-99.3mS	0-63	table#5	
4	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0kHz-Thru	34-60	table#3	
6					
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11	Rev Delay	0.1mS-99.3mS	0-63	table#5	
12	Density	0-4 (rev, var, ins1-4 block) 0-2 (ins5 block)	0-4 0-2		
13	Er/Rev Balance	E63>R-E=R-E<R63	1-127		
14					
15	Feedback Level	–63-+63	1-127		
16					

DELAY L, C, R MSB = 05

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-715.0ms	1-7150		
2	Rch Delay	0.1-715.0ms	1-7150		
3	Cch Delay	0.1-715.0ms	1-7150		
4	Feedback Delay	0.1-715.0ms	1-7150		
5	Feedback Level	–63-+63	1-127		
6	Cch Level	0-127	0-127		
7	High Damp	0.1-1.0	1-10		
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	–12-+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	–12-+12dB	52-76		

DELAY L, R MSB = 06

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay	0.1-715.0ms	1-7150		
2	Rch Delay	0.1-715.0ms	1-7150		
3	Feedback Delay 1	0.1-715.0ms	1-7150		
4	Feedback Delay 2	0.1-715.0ms	1-7150		
5	Feedback Level	–63-+63	1-127		
6	High Damp	0.1-1.0	1-10		
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	–12-+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	–12-+12dB	52-76		

ECHO MSB = 07

No.	Parameter	Display	Value	See Table	Control
1	Lch Delay1	0.1-355.0ms	1-3550		
2	Lch Feedback Level	–63-+63	1-127		
3	Rch Delay1	0.1-355.0ms	1-3550		
4	Rch Feedback Level	–63-+63	1-127		
5	High Damp	0.1-1.0	1-10		
6	Lch Delay2	0.1-355.0ms	1-3550		
7	Rch Delay2	0.1-355.0ms	1-3550		
8	Delay2 Level	0-127	0-127		
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	–12-+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	–12-+12dB	52-76		

CROSS DELAY MSB = 08

No.	Parameter	Display	Value	See Table	Control
1	L → R Delay	0.1-355.0ms	1-3550		
2	R → L Delay	0.1-355.0ms	1-3550		
3	Feedback Level	–63-+63	1-127		
4	Input Select	L, R, L&R	0-2		
5	High Damp	0.1-1.0	1-10		
6					
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
14	EQ Low Gain	–12-+12dB	52-76		
15	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
16	EQ High Gain	–12-+12dB	52-76		

EARLY REF1, EARLY REF2 MSB = 09

No.	Parameter	Display	Value	See Table	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0-5		
2	Room Size	0.1-7.0	0-44	table#6	
3	Diffusion	0-10	0-10		
4	Initial Delay	0.1mS-200.0mS	0-127	table#5	
5	Feedback Level	–63-+63	1-127		
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0kHz-Thru	34-60	table#3	
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11	Liveness	0-10	0-10		
12	Density	0-3	0-3		
13	High Damp	0.1-1.0	1-10		
14					
15					
16					

GATE REVERB MSB = 10
REVERSE GATE MSB = 11

No.	Parameter	Display	Value	See Table	Control
1	Type	TypeA, TypeB	0-1		
2	Room Size	0.1-7.0	0-44	table#6	
3	Diffusion	0-10	0-10		
4	Initial Delay	0.1mS-200.0mS	0-127	table#5	
5	Feedback Level	–63-+63	1-127		
6	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
7	LPF Cutoff	1.0kHz-Thru	34-60	table#3	
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11	Liveness	0-10	0-10		
12	Density	0-3	0-3		
13	High Damp	0.1-1.0	1-10		
14					
15					
16					

WHITE ROOM MSB = 16
TUNNEL MSB = 17
CANYON MSB = 18
BASEMENT MSB = 19

No.	Parameter	Display	Value	See Table	Control
1	Reverb Time	0.3-30.0s	0-69	table#4	
2	Diffusion	0-10	0-10		
3	Initial Delay	0.1mS-99.3mS	0-63	table#5	
4	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
5	LPF Cutoff	1.0kHz-Thru	34-60	table#3	
6	Width	0.5-10.2m	0-37	table#8	
7	Height	0.5-20.2m	0-73	table#8	
8	Depth	0.5-30.2m	0-104	table#8	
9	Wall Vary	0-30	0-30		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11	Rev Delay	0.1mS-99.3mS	0-63	table#5	
12					
13					
14					
15					
16					

KARAOKE1, 2, 3 MSB = 20

No.	Parameter	Display	Value	See Table	Control
1	Delay Time	0.1mS-400.0mS	0-127	table#7	
2	Feedback Level	–63-+63	1-127		
3	HPF Cutoff	Thru-8.0kHz	0-52	table#3	
4	LPF Cutoff	1.0kHz-Thru	34-60	table#3	
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13					
14					
15					
16					

CHORUS1, 2, 3, 4 MSB = 65
CELESTE1, 2, 3, 4 MSB = 66

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Feedback Level	–63-+63	1-127		
4	Delay Offset	0.0mS-50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13					
14					
15	Input Mode	mono/stereo	0-1		
16					

FLANGER1, 2, 3 MSB = 67

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Feedback Level	–63-+63	1-127		
4	Delay Offset	0.0mS-50mS	0-127	table#2	
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13					
14	LFO Phase Difference	–180-+180deg (resolution=3deg.)	4-124		
15					
16					

SYMPHONIC MSB = 68

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Delay Offset	0.0mS-50mS	0-127	table#2	
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11					
12					
13					
14					
15					
16					

ROTARY SPEAKER MSB = 69, LSB = 0, 16, 17

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	LFO Depth	0-127	0-127		
3					
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		
11					
12					
13					
14					
15					
16					

TREMOLO MSB = 70

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	AM Depth	0-127	0-127		
3	PM Depth	0-127	0-127		
4					
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10					
11					
12					
13					
14	LFO Phase Difference	–180-+180deg (resolution=3deg.)	4-124		
15	Input Mode	mono/stereo	0-1		
16					

AUTO PAN MSB = 71

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	●
2	L/R Depth	0-127	0-127		
3	F/R Depth	0-127	0-127		
4	PAN Direction	L ↔ R, L → R, L ← R, Lturn, Rturn, L/R	0-5		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10					
11					
12					
13					
14					
15					
16					

PHASER 1 MSB = 72, LSB = 0

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Phase Shift Offset	0-127	0-127		
4	Feedback Level	–63-+63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11	Stage	6, 7, 8, 9, 10	6-10		
12					
13					
14					
15					
16					

PHASER 2 MSB = 72, LSB = 8

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Phase Shift Offset	0-127	0-127		
4	Feedback Level	–63-+63	1-127		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		●
11	Stage	3, 4, 5	3-5		
12					
13	LFO Phase Difference	–180deg-+180deg (resolution=3deg.)	4-124		
14					
15					
16					

DISTORTION MSB = 73, LSB = 0
OVERDRIVE MSB = 74

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
3	EQ Low Gain	–12-+12dB	52-76		
4	LPF Cutoff	1.0kHz-Thru	34-60	table#3	
5	Output Level	0-127	0-127		
6					
7	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	
8	EQ Mid Gain	–12-+12dB	52-76		
9	EQ Mid Width	1.0-12.0	10-120		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		
11	Edge (Clip Curve)	0-127	0-127	mild-sharp	
12					
13					
14					
15					
16					

AMP SIMULATOR MSB = 75, LSB = 0

No.	Parameter	Display	Value	See Table	Control
1	Drive	0-127	0-127		●
2	AMP Type	Off, Stack, Combo, Tube	0-3		
3	LPF Cutoff	1.0kHz-Thru	34-60	table#3	
4	Output Level	0-127	0-127		
5					
6					
7					
8					
9					
10	Dry/Wet	D63>W-D=W-D<W63	1-127		
11	Edge (Clip Curve)	0-127	0-127	mild-sharp	
12					
13					
14					
15					
16					

3BAND EQ (MONO) MSB = 76

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Gain	–12-+12dB	52-76		
2	EQ Mid Frequency	100Hz-10.0kHz	14-54	table#3	
3	EQ Mid Gain	–12-+12dB	52-76		
4	EQ Mid Width	1.0-12.0	10-120		
5	EQ High Gain	–12-+12dB	52-76		
6	EQ Low Frequency	50Hz-2.0kHz	8-40	table#3	
7	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
8					
9					
10					
11					
12					
13					
14					
15	Input Mode	mono/stereo	0-1		
16					

2BAND EQ (STEREO) MSB = 77

No.	Parameter	Display	Value	See Table	Control
1	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
2	EQ Low Gain	–12-+12dB	52-76		
3	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
4	EQ High Gain	–12-+12dB	52-76		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

AUTO WAH MSB = 78, LSB = 0, 16, 19, 20

No.	Parameter	Display	Value	See Table	Control
1	LFO Frequency	0.00Hz-39.7Hz	0-127	table#1	
2	LFO Depth	0-127	0-127		
3	Cutoff Frequency Offset	0-127	0-127		●
4	Resonance	1.0-12.0	10-120		
5					
6	EQ Low Frequency	32Hz-2.0kHz	4-40	table#3	
7	EQ Low Gain	–12-+12dB	52-76		
8	EQ High Frequency	500Hz-16.0kHz	28-58	table#3	
9	EQ High Gain	–12-+12dB	52-76		
10	Dry/Wet	D63>W-D=W-D<W63	1-127		
11					
12					
13					
14					
15					
16					

NO EFFECT MSB = 0

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

THRU MSB = 64

No.	Parameter	Display	Value	See Table	Control
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Parameter 10 Dry/Wet only affects insertion type effects.

Effect Data Assign Table / Effektdaten-Zuordnungstabelle / Tableau d'assignation des données d'effets/ Tabla de asignación de datos para efectos

Table#1
LFO Frequency

Data	Value	Data	Value	Data	Value	Data	Value
0	0.00	32	1.35	64	2.69	96	8.41
1	0.04	33	1.39	65	2.78	97	8.75
2	0.08	34	1.43	66	2.86	98	9.08
3	0.13	35	1.47	67	2.94	99	9.42
4	0.17	36	1.51	68	3.03	100	9.76
5	0.21	37	1.56	69	3.11	101	10.1
6	0.25	38	1.60	70	3.20	102	10.8
7	0.29	39	1.64	71	3.28	103	11.4
8	0.34	40	1.68	72	3.37	104	12.1
9	0.38	41	1.72	73	3.45	105	12.8
10	0.42	42	1.77	74	3.53	106	13.5
11	0.46	43	1.81	75	3.62	107	14.1
12	0.51	44	1.85	76	3.70	108	14.8
13	0.55	45	1.89	77	3.87	109	15.5
14	0.59	46	1.94	78	4.04	110	16.2
15	0.63	47	1.98	79	4.21	111	16.8
16	0.67	48	2.02	80	4.37	112	17.5
17	0.72	49	2.06	81	4.54	113	18.2
18	0.76	50	2.10	82	4.71	114	19.5
19	0.80	51	2.15	83	4.88	115	20.9
20	0.84	52	2.19	84	5.05	116	22.2
21	0.88	53	2.23	85	5.22	117	23.6
22	0.93	54	2.27	86	5.38	118	24.9
23	0.97	55	2.31	87	5.55	119	26.2
24	1.01	56	2.36	88	5.72	120	27.6
25	1.05	57	2.40	89	6.06	121	28.9
26	1.09	58	2.44	90	6.39	122	30.3
27	1.14	59	2.48	91	6.73	123	31.6
28	1.18	60	2.52	92	7.07	124	33.0
29	1.22	61	2.57	93	7.40	125	34.3
30	1.26	62	2.61	94	7.74	126	37.0
31	1.30	63	2.65	95	8.08	127	39.7

Table#2
Modulation Delay Offset

Data	Value	Data	Value	Data	Value	Data	Value
0	0.0	32	3.2	64	6.4	96	9.6
1	0.1	33	3.3	65	6.5	97	9.7
2	0.2	34	3.4	66	6.6	98	9.8
3	0.3	35	3.5	67	6.7	99	9.9
4	0.4	36	3.6	68	6.8	100	10.0
5	0.5	37	3.7	69	6.9	101	11.1
6	0.6	38	3.8	70	7.0	102	12.2
7	0.7	39	3.9	71	7.1	103	13.3
8	0.8	40	4.0	72	7.2	104	14.4
9	0.9	41	4.1	73	7.3	105	15.5
10	1.0	42	4.2	74	7.4	106	17.1
11	1.1	43	4.3	75	7.5	107	18.6
12	1.2	44	4.4	76	7.6	108	20.2
13	1.3	45	4.5	77	7.7	109	21.8
14	1.4	46	4.6	78	7.8	110	23.3
15	1.5	47	4.7	79	7.9	111	24.9
16	1.6	48	4.8	80	8.0	112	26.5
17	1.7	49	4.9	81	8.1	113	28.0
18	1.8	50	5.0	82	8.2	114	29.6
19	1.9	51	5.1	83	8.3	115	31.2
20	2.0	52	5.2	84	8.4	116	32.8
21	2.1	53	5.3	85	8.5	117	34.3
22	2.2	54	5.4	86	8.6	118	35.9
23	2.3	55	5.5	87	8.7	119	37.5
24	2.4	56	5.6	88	8.8	120	39.0
25	2.5	57	5.7	89	8.9	121	40.6
26	2.6	58	5.8	90	9.0	122	42.2
27	2.7	59	5.9	91	9.1	123	43.7
28	2.8	60	6.0	92	9.2	124	45.3
29	2.9	61	6.1	93	9.3	125	46.9
30	3.0	62	6.2	94	9.4	126	48.4
31	3.1	63	6.3	95	9.5	127	50.0

Table#3
EQ Frequency

Data	Value	Data	Value
0	THRU(0)	32	800
1	22	33	900
2	25	34	1.0k
3	28	35	1.1k
4	32	36	1.2k
5	36	37	1.4k
6	40	38	1.6k
7	45	39	1.8k
8	50	40	2.0k
9	56	41	2.2k
10	63	42	2.5k
11	70	43	2.8k
12	80	44	3.2k
13	90	45	3.6k
14	100	46	4.0k
15	110	47	4.5k
16	125	48	5.0k
17	140	49	5.6k
18	160	50	6.3k
19	180	51	7.0k
20	200	52	8.0k
21	225	53	9.0k
22	250	54	10.0k
23	280	55	11.0k
24	315	56	12.0k
25	355	57	14.0k
26	400	58	16.0k
27	450	59	18.0k
28	500	60	THRU(20.0k)
29	560		
30	630		
31	700		

Table#4
Reverb Time

Data	Value	Data	Value	Data	Value
0	0.3	32	3.5	64	17.0
1	0.4	33	3.6	65	18.0
2	0.5	34	3.7	66	19.0
3	0.6	35	3.8	67	20.0
4	0.7	36	3.9	68	25.0
5	0.8	37	4.0	69	30.0
6	0.9	38	4.1		
7	1.0	39	4.2		
8	1.1	40	4.3		
9	1.2	41	4.4		
10	1.3	42	4.5		
11	1.4	43	4.6		
12	1.5	44	4.7		
13	1.6	45	4.8		
14	1.7	46	4.9		
15	1.8	47	5.0		
16	1.9	48	5.5		
17	2.0	49	6.0		
18	2.1	50	6.5		
19	2.2	51	7.0		
20	2.3	52	7.5		
21	2.4	53	8.0		
22	2.5	54	8.5		
23	2.6	55	9.0		
24	2.7	56	9.5		
25	2.8	57	10.0		
26	2.9	58	11.0		
27	3.0	59	12.0		
28	3.1	60	13.0		
29	3.2	61	14.0		
30	3.3	62	15.0		
31	3.4	63	16.0		

Table#5
Delay Time (200.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	50.5	64	100.8	96	151.2
1	1.7	33	52.0	65	102.4	97	152.8
2	3.2	34	53.6	66	104.0	98	154.4
3	4.8	35	55.2	67	105.6	99	155.9
4	6.4	36	56.8	68	107.1	100	157.5
5	8.0	37	58.3	69	108.7	101	159.1
6	9.5	38	59.9	70	110.3	102	160.6
7	11.1	39	61.5	71	111.9	103	162.2
8	12.7	40	63.1	72	113.4	104	163.8
9	14.3	41	64.6	73	115.0	105	165.4
10	15.8	42	66.2	74	116.6	106	166.9
11	17.4	43	67.8	75	118.2	107	168.5
12	19.0	44	69.4	76	119.7	108	170.1
13	20.6	45	70.9	77	121.3	109	171.7
14	22.1	46	72.5	78	122.9	110	173.2
15	23.7	47	74.1	79	124.4	111	174.8
16	25.3	48	75.7	80	126.0	112	176.4
17	26.9	49	77.2	81	127.6	113	178.0
18	28.4	50	78.8	82	129.2	114	179.5
19	30.0	51	80.4	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

Table#6
Room Size

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	5.1	64	10.1	96	15.1
1	0.3	33	5.3	65	10.3	97	15.3
2	0.4	34	5.4	66	10.4	98	15.5
3	0.6	35	5.6	67	10.6	99	15.6
4	0.7	36	5.7	68	10.8	100	15.8
5	0.9	37	5.9	69	10.9	101	15.9
6	1.0	38	6.1	70	11.1	102	16.1
7	1.2	39	6.2	71	11.2	103	16.2
8	1.4	40	6.4	72	11.4	104	16.4
9	1.5	41	6.5	73	11.5	105	16.6
10	1.7	42	6.7	74	11.7	106	16.7
11	1.8	43	6.8	75	11.9	107	16.9
12	2.0	44	7.0	76	12.0	108	17.0
13	2.1	45	7.2	77	12.2	109	17.2
14	2.3	46	7.3	78	12.3	110	17.3
15	2.5	47	7.5	79	12.5	111	17.5
16	2.6	48	7.6	80	12.6	112	17.6
17	2.8	49	7.8	81	12.8	113	17.8
18	2.9	50	7.9	82	12.9	114	18.0
19	3.1	51	8.1	83	13.1	115	18.1
20	3.2	52	8.2	84	13.3	116	18.3
21	3.4	53	8.4	85	13.4	117	18.4
22	3.5	54	8.6	86	13.6	118	18.6
23	3.7	55	8.7	87	13.7	119	18.7
24	3.9	56	8.9	88	13.9	120	18.9
25	4.0	57	9.0	89	14.0	121	19.1
26	4.2	58	9.2	90	14.2	122	19.2
27	4.3	59	9.3	91	14.4	123	19.4
28	4.5	60	9.5	92	14.5	124	19.5
29	4.6	61	9.7	93	14.7	125	19.7
30	4.8	62	9.8	94	14.8	126	19.8
31	5.0	63	10.0	95	15.0	127	20.0

Table#7
Delay Time (400.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	100.9	64	201.6	96	302.4
1	3.2	33	104.0	65	204.8	97	305.5
2	6.4	34	107.2	66	207.9	98	308.7
3	9.5	35	110.3	67	211.1	99	311.8
4	12.7	36	113.5	68	214.2	100	315.0
5	15.8	37	116.6	69	217.4	101	318.1
6	19.0	38	119.8	70	220.5	102	321.3
7	22.1	39	122.9	71	223.7	103	324.4
8	25.3	40	126.1	72	226.8	104	327.6
9	28.4	41	129.2	73	230.0	105	330.7
10	31.6	42	132.4	74	233.1	106	333.9
11	34.7	43	135.5	75	236.3	107	337.0
12	37.9	44	138.6	76	239.4	108	340.2
13	41.0	45	141.8	77	242.6	109	343.3
14	44.2	46	144.9	78	245.7	110	346.5
15	47.3	47	148.1	79	248.9	111	349.6
16	50.5	48	151.2	80	252.0	112	352.8
17	53.6	49	154.4	81	255.2	113	355.9
18	56.8	50	157.5	82	258.3	114	359.1
19	59.9	51	160.7	83	261.5	115	362.2
20	63.1	52	163.8	84	264.6	116	365.4
21	66.2	53	167.0	85	267.7	117	368.5
22	69.4	54	170.1	86	270.9	118	371.7
23	72.5	55	173.3	87	274.0	119	374.8
24	75.7	56	176.4	88	277.2	120	378.0
25	78.8	57	179.6	89	280.3	121	381.1
26	82.0	58	182.7	90	283.5	122	384.3
27	85.1	59	185.9	91	286.6	123	387.4
28	88.3	60	189.0	92	289.8	124	390.6
29	91.4	61	192.2	93	292.9	125	393.7
30	94.6	62	195.3	94	296.1	126	396.9
31	97.7	63	198.5	95	299.2	127	400.0

Table#8
Reverb Width; Depth; Height

Data	Value	Data	Value	Data	Value	Data	Value
0	0.5	32	8.8	64	17.6	96	27.5
1	0.8	33	9.1	65	17.9	97	27.8
2	1.0	34	9.4	66	18.2	98	28.1
3	1.3	35	9.6	67	18.5	99	28.5
4	1.5	36	9.9	68	18.8	100	28.8
5	1.8	37	10.2	69	19.1	101	29.2
6	2.0	38	10.4	70	19.4	102	29.5
7	2.3	39	10.7	71	19.7	103	29.9
8	2.6	40	11.0	72	20.0	104	30.2
9	2.8	41	11.2	73	20.2		
10	3.1	42	11.5	74	20.5		
11	3.3	43	11.8	75	20.8		
12	3.6	44	12.1	76	21.1		
13	3.9	45	12.3	77	21.4		
14	4.1	46	12.6	78	21.7		
15	4.4	47	12.9	79	22.0		
16	4.6	48	13.1	80	22.4		
17	4.9	49	13.4	81	22.7		
18	5.2	50	13.7	82	23.0		
19	5.4	51	14.0	83	23.3		
20	5.7	52	14.2	84	23.6		
21	5.9	53	14.5	85	23.9		
22	6.2	54	14.8	86	24.2		
23	6.5	55	15.1	87	24.5		
24	6.7	56	15.4	88	24.9		
25	7.0	57	15.6	89	25.2		
26	7.2	58	15.9	90	25.5		
27	7.5	59	16.2	91	25.8		
28	7.8	60	16.5	92	26.1		
29	8.0	61	16.8	93	26.5		
30	8.3	62	17.1	94	26.8		
31	8.6	63	17.3	95	27.1		

Harmony/Echo Type List / Liste der Harmony/Echo-Effekttypen / Liste des types d'harmonie/d'écho / Lista de tipos de ecos/armonías

STANDARD DUET
STANDARD TRIO
FULL CHORD
ROCK DUET
COUNTRY DUET
COUNTRY TRIO
BLOCK
4-WAY CLOSE 1
4-WAY CLOSE 2
4-WAY OPEN
1+5
OCTAVE
STRUM
MULTI ASSIGN
ECHO
TREMOLO
TRILL

Parameter Chart / Parametertabelle / Tableau des paramètres / Gráfico de parámetros

Settings are saved/called up for each type.

Data Type	The data is saved...	The data is called up...	Saved Location
Setup	When you change settings in a display page and then exit from the page.	When you turn off the power and then turn on the power.	System area of the internal memory (Flash Memory)
Voice	When you change settings in the Voice Set display and then save the data as Voice file.	When you call up a voice.	Voice File
Song	When you save the recorded or edited (current) song as a Song file.	When you call up a song, play a song or move the song position.	Song File
Style	When you save the recorded or edited data as a Style file.	When you call up a style.	Style File
OTS	When you memorize settings with the REGISTARATION buttons and then save the current style as a Style file.	When you call up an OTS by pressing one of OTS buttons.	
Regist.	When you memorize settings with the REGISTARATION buttons and then save the data as a Registaration Bank File.	When you call up an Regist. by pressing one of REGISTRATION MEMORY buttons.	Registration Bank File

If parameters belonging to more than one type are set, the new settings take priority over the old.

O: Memorized
X: Not Memorized

Parameter	System SetUp	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
MainWindow											
Transpose	X	X	-	X	-	X	X	O	Tune/Trans	-	
SplitPoint(Accomp)	O	X	-	O	-	X	X	O	Style	Split	
SplitPoint(Left)	O	X	-	X	-	X	X	O	Style	Split	
SongFile	X	X	-	X	-	X	X	O	Song	-	
StyleFile	X	X	-	O	-	X	X	O	Style	-	
IntroEndingSection	X	X	-	X	-	O	X	X	-	-	
VoiceFile (Main, Layer, Left)	X	X	-	X	-	X	X	X	-	-	The data that is saved to Regist./OTS is not actual Voice, but Program Change.
RegistrationBankFile	X	X	-	X	-	X	X	X	-	-	
PartSelect	X	X	-	X	-	X	X	X	-	-	
PartOnOff(Layer)	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
PartOnOff(Left)	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
BalancePopup											
SongVolume	X	X	-	X	-	X	X	O	Song	-	
StyleVolume	X	X	-	O	-	X	X	O	Style	-	
MicVolume	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
MainVolume	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
LeftVolume	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
LayerVolume	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Channel OnOffPopup											
ChannelOnOff(Song)	X	X	-	X	-	X	X	X	-	-	For songs that have no channel on/off message, all are set to on.
ChannelOnOff(Style)	X	X	-	O	-	O	X	O	Style	-	
VoiceEffect											
Reverb	O	X	-	X	-	X	X	X	-	-	
LeftHold	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Dsp(Main, Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Dsp(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Variation(Main, Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Variation(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Harmony/Echo	X	X	-	O	Keyboard Voice	X	O	O	Harmony	-	
Poly/Mono(Main, Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Poly/Mono(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Registration											
FreezeOnOff	X	X	-	X	-	X	X	X	-	-	
RegistMemoryPopupSetting	O	X	-	X	-	X	X	X	-	-	Filter settings when registering Registration.
RegistNumber	X	X	-	X	-	X	X	X	-	-	
RegistContentsName	X	X	-	X	-	X	X	O	-	-	
Piano											
PianoLock	O	X	-	X	-	X	X	X	-	-	
Menu>Function											
MasterTune/ScaleTune											
MasterTune											
MasterTune	O	X	-	X	-	X	X	X	-	-	
ScaleTune											
Scale	X	X	-	X	-	X	X	O	Scale	-	
Tune	X	X	-	X	-	X	X	O	Scale	-	
BaseNote	X	X	-	X	-	X	X	O	Scale	-	
PartSelect	X	X	-	X	-	X	X	O	Scale	-	
SongSetting											
QuickStart	O	X	-	X	-	X	X	X	-	-	
SongChainPlay	O	X	-	X	-	X	X	X	-	-	
Channel Setting											
Track1 Channel	O	X	-	O	-	X	X	X	-	-	
Track2 Channel	O	X	-	O	-	X	X	X	-	-	
Auto Ch Set	O	X	-	X	-	X	X	X	-	-	
Phrase Mark	X	X	-	X	-	X	X	X	-	-	
Lyrics Language	O	X	-	O	Lyrics Language	X	X	X	-	-	
StyleSetting/SplitPoint/ChordFingering											
StyleSetting/SplitPoint											
StopAcmp	O	X	-	X	-	X	X	X	-	-	
OTSLinkTiming	O	X	-	X	-	X	X	X	-	-	
SynchroStopWindow	O	X	-	X	-	X	X	X	-	-	
AccompTouch	O	X	-	X	-	X	X	X	-	-	
SectionSet	O	X	-	X	-	X	X	X	-	-	
SplitPoint(Accomp) →	MainWindow										
SplitPoint(Left) →	MainWindow										
ChordFingering											
FingeringType	O	X	-	X	-	X	X	O	Style	O	
TutorRoot	X	X	-	X	-	X	X	X	-	-	
TutorType	X	X	-	X	-	X	X	X	-	-	
Controller											
Pedal											
PedalType	X	O (Left only)	LPDL	O (Left only)	Keyboard Voice	X	O (Left only)	O	Pedal	-	
PedalSettings	X	O (Left only)	LPDL	O (Left only)	Keyboard Voice	X	O (Left only)	O	Pedal	-	
PedalTypeDefaultSetting	X	X	X	X	-	X	X	X	X	-	

Parameter	System SetUp	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
PedalPolarity	O	X	-	X	-	X	X	X	-	-	
Keyboard/Panel											
TouchSense	O	X	-	X	-	X	X	X	-	-	
TouchOffLevel	X	X	-	X	-	X	X	O	Voice	-	
TouchOnOff	X	X	-	X	-	X	X	O	Voice	-	
TransposeAssign	O	X	-	X	-	X	X	X	-	-	
Regist.Sequence/Freeze/VoiceSet											
RegistrationSequence											
RegistSequenceData	X	X	-	X	-	X	X	O	-	-	Memorized as a single Registration Bank file.
RegistSequenceEnable	O	X	-	X	-	X	X	X	-	-	
Regist(+)Pedal	O	X	-	X	-	X	X	X	-	-	
Regist(-)Pedal	O	X	-	X	-	X	X	X	-	-	
SequenceEnd	X	X	-	X	-	X	X	O	-	-	Memorized as a single Registration Bank file.
Freeze											
FreezeGroupSetting	O	X	-	X	-	X	X	X	-	-	
VoiceSet											
VoiceSetEnable Main	O	X	-	X	-	X	X	X	-	-	
VoiceSetEnable Layer	O	X	-	X	-	X	X	X	-	-	
VoiceSetEnable Left	O	X	-	X	-	X	X	X	-	-	
Harmony/Echo											
Type	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
Volume	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
Speed	X	O	Harm	O	Keyboard Voice (Included in Type)	X	O	O	Harm	-	
Assign	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
ChordNoteOnly	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
TouchLimit	X	O	Harm	O	Keyboard Voice	X	O	O	Harm	-	
Utility											
Configuration											
Speaker	O	X	-	X	-	X	X	X	-	-	
DisplayVoiceNumber	O	X	-	X	-	X	X	X	-	-	
MetronomeVolume	O	X	-	X	-	X	X	X	-	-	
MetronomeSound	O	X	-	X	-	X	X	X	-	-	
TimeSignature	X	X	-	O	-	O	X	X	-	-	
ParameterLock	O	X	-	X	-	X	X	X	-	-	
TapCountPercussion	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
TapCountVelocity	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
LCDBrightness	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
FadeInTime	O	X	-	X	-	X	X	X	-	-	
FadeOutTIme	O	X	-	X	-	X	X	X	-	-	
FadeOutHoldTime	O	X	-	X	-	X	X	X	-	-	
Disk											
FloppyDiskSongAutoOpen	O	X	-	X	-	X	X	X	-	-	
Owner											
OwnerName	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
Language	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
SystemReset											
FactoryResetSetting	X	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
MIDI											
System											
Local Control	X	X	-	X	-	X	X	X	-	-	
Clock	X	X	-	X	-	X	X	X	-	-	
Transmit Clock	X	X	-	X	-	X	X	X	-	-	
Receive Transpose	X	X	-	X	-	X	X	X	-	-	
Receive Start/Stop	X	X	-	X	-	X	X	X	-	-	
SysEx Transmit	X	X	-	X	-	X	X	X	-	-	
SysEx Receive	X	X	-	X	-	X	X	X	-	-	
Chord SysEx Transmit	X	X	-	X	-	X	X	X	-	-	
Chord SysEx Receive	X	X	-	X	-	X	X	X	-	-	
Transmit											
Part (Ch1~16)	X	X	-	X	-	X	X	X	-	-	
Filter (Ch1~16)	X	X	-	X	-	X	X	X	-	-	
Receive											
Mode(Ch1~32)	X	X	-	X	-	X	X	X	-	-	
Filter (Ch1~32)	X	X	-	X	-	X	X	X	-	-	
Root	X	X	-	X	-	X	X	X	-	-	
Chord Detect	X	X	-	X	-	X	X	X	-	-	
MIDI Template											
Template No.	O	X	-	X	-	X	X	X	-	-	
Template Name	X	X	-	X	-	X	X	X	-	-	
VideoOut											
NTSC/PAL	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
Size	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
CharactrorColor	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
BackgroundColor	O	X	-	X	-	X	X	X	-	-	Cannot be reset with Factory Reset.
Lyrics											
BackGround(Panel Setting)	O	X	-	X	Lyrics Language	X	X	X	-	-	Cannot be reset with Factory Reset.
BackGround(Song Setting)	X	X	-	O	Lyrics Language	X	X	X	-	-	Reset to default background with Factory Reset.
MusicScore											
Left on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Right on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Lyric on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Chord on/off	O	X	-	O	Score Setting	X	X	X	-	-	
NoteName on/off	O	X	-	O	Score Setting	X	X	X	-	-	
Size	O	X	-	O	Score Setting	X	X	X	-	-	
Left ch.	O	X	-	O	Score Setting	X	X	X	-	-	
Right ch.	O	X	-	O	Score Setting	X	X	X	-	-	
KeySignature	X	X	-	O	Score Setting	X	X	X	-	-	
Quantize	O	X	-	O	Score Setting	X	X	X	-	-	
NoteName	O	X	-	O	Score Setting	X	X	X	-	-	
ColorNote	O	X	-	O	Score Setting	X	X	X	-	-	
Song											
Track1, 2 On/Off	X	X	-	O	-	X	X	X	-	-	Setting is linked to Channel on/off.
ExtraTracks On/Off	X	X	-	X	-	X	X	X	-	-	Setting is linked to Channel on/off.
Synchro Start	X	X	-	X	-	X	X	X	-	-	
StartStop	X	X	-	X	-	X	X	X	-	-	
A-B Repeat	X	X	-	X	-	X	X	X	-	-	
DigitalStudio>DigitalRecording>Song Creator											
Rec Mode											
Rec Start	X	X	-	X	-	X	X	X	-	-	
PunchInAt	X	X	-	X	-	X	X	X	-	-	
Rec Stop	X	X	-	X	-	X	X	X	-	-	
PunchOutAt	X	X	-	X	-	X	X	X	-	-	

Parameter	System SetUp	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
Pedal Punch In/Out	X	X	-	X	-	X	X	X	-	-	
Quantize											
Track	X	X	-	X	-	X	X	X	-	-	
Size	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	-	X	-	X	X	X	-	-	
Delete	X	X	-	X	-	X	X	X	-	-	
Mix											
Source1	X	X	-	X	-	X	X	X	-	-	
Source2	X	X	-	X	-	X	X	X	-	-	
Destination	X	X	-	X	-	X	X	X	-	-	
Channel Transpose	X	X	-	X	-	X	X	X	-	-	
SetUp	O	X	-	X	-	X	X	X	-	-	
Filter											
Main Filter	O	X	-	X	-	X	X	X	-	-	
Control Change Filter	O	X	-	X	-	X	X	X	-	-	
Accompaniment Filter	O	X	-	X	-	X	X	X	-	-	
Tempo											
Tempo	X	X	-	O	-	O	X	O	Tempo	-	
Transpose →	MainWindow										
DigitalStudio>DigitalRecording>Style Creator											
Basic											
Section	X	X	-	X	-	X	X	X	-	-	
Pattern Length	X	X	-	X	-	O	X	X	-	-	
Tempo	X	X	-	X	-	O	X	X	-	-	
Beat	X	X	-	X	-	O	X	X	-	-	
Assembly											
Source Pattern	X	X	-	X	-	X	X	X	-	-	
Section	X	X	-	X	-	X	X	X	-	-	
Part	X	X	-	X	-	X	X	X	-	-	
Play Type	X	X	-	X	-	X	X	X	-	-	
Groove											
Original Beat	X	X	-	X	-	X	X	X	-	-	
Beat Converter	X	X	-	X	-	X	X	X	-	-	
Swing	X	X	-	X	-	X	X	X	-	-	
Fine	X	X	-	X	-	X	X	X	-	-	
Dynamics											
Part	X	X	-	X	-	X	X	X	-	-	
Accent Type	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	-	X	-	X	X	X	-	-	
Expand/Comp.	X	X	-	X	-	X	X	X	-	-	
Boost/Cut	X	X	-	X	-	X	X	X	-	-	
Quantize											
Part	X	X	-	X	-	X	X	X	-	-	
Size	X	X	-	X	-	X	X	X	-	-	
Strength	X	X	-	X	-	X	X	X	-	-	
Velocity Change											
Part	X	X	-	X	-	X	X	X	-	-	
Boost/Cut	X	X	-	X	-	X	X	X	-	-	
Measure Copy											
Part	X	X	-	X	-	X	X	X	-	-	
Measure Top	X	X	-	X	-	X	X	X	-	-	
Measure Last	X	X	-	X	-	X	X	X	-	-	
Destination	X	X	-	X	-	X	X	X	-	-	
Measure Clear											
Part	X	X	-	X	-	X	X	X	-	-	
Measure Top	X	X	-	X	-	X	X	X	-	-	
Measure Last	X	X	-	X	-	X	X	X	-	-	
Remove Event											
Part	X	X	-	X	-	X	X	X	-	-	
Event	X	X	-	X	-	X	X	X	-	-	
Parameter											
Part	X	X	-	X	-	X	X	X	-	-	
Source Root	X	X	-	X	-	O	X	X	-	-	
Source Chord	X	X	-	X	-	O	X	X	-	-	
NTR	X	X	-	X	-	O	X	X	-	-	
NTT	X	X	-	X	-	O	X	X	-	-	
High Key	X	X	-	X	-	O	X	X	-	-	
Note Limit	X	X	-	X	-	O	X	X	-	-	
RTR	X	X	-	X	-	O	X	X	-	-	
Filter											
Main Filter	O	X	-	X	-	X	X	X	-	-	
Control Change Filter	O	X	-	X	-	X	X	X	-	-	
Style											
AccompanimentOnOff	X	X	-	X	-	X	O(On)	O	Style	-	
AutoFillOnOff	O	X	-	X	-	X	X	X	-	-	
OTSLink	X	X	-	X	-	X	X	X	-	-	
Section	X	X	-	O	-	X	X	O	Style	-	
SynchroStart	X	X	-	X	-	X	O(On)	X	-	-	
SynchroStop	X	X	-	X	-	X	X	X	-	-	
StartStop	X	X	-	O	-	X	X	X	-	-	
MusicFinder											
SortKind	O	X	-	X	-	X	X	X	-	-	
SortOrder	O	X	-	X	-	X	X	X	-	-	
TempoLock	O	X	-	X	-	X	X	X	-	-	
Search1/2											
Music	O	X	-	X	-	X	X	X	-	-	
Keyword	O	X	-	X	-	X	X	X	-	-	
FileNumber	O	X	-	X	-	X	X	X	-	-	
Beat	O	X	-	X	-	X	X	X	-	-	
SearchArea	O	X	-	X	-	X	X	X	-	-	
Tempo	O	X	-	X	-	X	X	X	-	-	
Genre	O	X	-	X	-	X	X	X	-	-	
Search results	X	X	-	X	-	X	X	X	-	-	
Record(=Property settings)	X	X	-	X	-	X	X	X	-	-	
DigitalStudio>SoundCreator											
Voice(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Voice(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Volume for Balance(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Volume for Balance(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Touch Sens(Main,Layer)	X	O	Voice	X	Keyboard Voice	X	O	O	Voice	-	
Touch Sens(Left)	X	O	Voice	X	Keyboard Voice	X	O	O	Style	-	
Octave for Left	X	O	Voice	X	-	X	X	X	-	-	
Octave for Main/Layer	X	O	Voice	X	-	X	X	X	-	-	

Parameter	System SetUp	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
Mono/Poly →	Voice Effect										
Portament Time →	DigitalStudio>Mixing Console										
Left Pedal											
Left Pedal Type →	Controller-Pedal										
Left Pedal Settings →	Controller-Pedal										
Filter Brightness →	DigitalStudio>Mixing Console										
Filter Resonance →	DigitalStudio>Mixing Console										
EG Attack(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Attack(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
EG Decay(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Decay(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
EG Release(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
EG Release(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Depth(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Depth(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Speed(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Speed(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Vibrato Delay(Main,Layer)	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Vibrato Delay(Left)	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Reverb Depth →	DigitalStudio>Mixing Console										
Chorus Depth →	DigitalStudio>Mixing Console										
DSP On/Off →	Voice Effect										
DSP Depth →	DigitalStudio>Mixing Console										
DSP Type(Main,Layer)	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
DSP Type(Left)	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
LastSelectedDSP	X	X	-	X	-	X	X	X	-	-	Memorized only when Sound Creator opened
DSP Variation →	Voice Effect										
DSP Fast Value(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
DSP Fast Value(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Harmony/Echo											
Type →	Harmony/Echo										
Volume →	Harmony/Echo										
Speed →	Harmony/Echo										
Assign →	Harmony/Echo										
ChordNoteOnly →	Harmony/Echo										
TouchLimit →	Harmony/Echo										
Natural Voice Reverb Type(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice Reverb Type(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice Chorus Type(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice Chorus Type(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice DSP Type(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice DSP Type(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice Brilliance Type(Main,Layer)	X	O	EQ	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice Brilliance Type(Left)	X	O	EQ	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice VibeSustain	O	X	-	X	-	X	X	X	-	-	
Natural Voice VibeRotorSpeed(Main,Layer)	X	O	Effects	O	Keyboard Voice	X	O	O	Voice	-	
Natural Voice VibeRotorSpeed(Left)	X	O	Effects	O	Keyboard Voice	X	O	O	Style	-	
Natural Voice Piano SS Depth	O	X	-	X	-	X	X	X	-	-	
Piano Tuning Curve	O	X	-	X	-	X	X	X	-	-	
DigitalStudio>Mixing Console											
Auto Revoice											
On/Off	O	X	-	X	-	X	X	X	-	-	
Setup	O	X	-	X	-	X	X	X	-	-	
Volume											
Style Part	X	X	-	O	-	O	X	O	Style	-	
Song Part	X	X	-	O	Volume	X	X	X	-	-	
Main,Layer →	MainWindow>BalancePopup>MainVolume/LayerVolume										
Left →	MainWindow>BalancePopup>LeftVolume										
Acmp(Offset) →	MainWindow>BalancePopup>StyleVolume										
Song(Offset) →	MainWindow>BalancePopup>SongVolume										
Mic →	MainWindow>BalancePopup>MicVolume										
Voice											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Voice	X	X	X	-	-	
PanPot											
Acmp Part	X	X	-	O	-	O	X	O	Style	-	
Song Part	X	X	-	O	Pan	X	X	X	-	-	
Main,Layer	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	X	-	X	X	X	-	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
Brightness											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Filter	X	X	X	-	-	
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Harmonic Contents											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Filter	X	X	X	-	-	
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Octave											
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Tune											
Main,Layer	X	X	-	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	X	-	O	Keyboard Voice	X	O	O	Style	-	
Portament Time											
Main,Layer	X	O	Voice	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Voice	O	Keyboard Voice	X	O	O	Style	-	
Pitch Bend Range											
Main,Layer	X	X	Voice	X	-	X	X	O	Voice	-	
Left	X	X	Voice	X	-	X	X	O	Style	-	
Transpose											
Master	X	X	-	X	-	X	X	O	Transpose	-	
Song	X	X	-	X	-	X	X	O	Transpose	-	
Keyboard	X	X	-	X	-	X	X	O	Transpose	-	
Reverb Type	X	X	-	X	-	O	X	O	Style/Song	Reverb Type	
Reverb Return Level	X	X	-	X	-	X	X	O	Style/Song	Reverb Return Level	

Parameter	System SetUp	Voice	Voice Set Group	Song	Song Setup Group	Style	OTS	Registration		Param Lock Group	Notes
								Regist	Freeze/Memory Group		
Natural Voice Reverb Type	X	O	Effect	X	-	O	X	O	Voice/Style/ Song	Reverb Type	
Reverb Depth											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Effect	X	X	X	-	-	
Main,Layer	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	X	-	X	X	X	-	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
Chorus Type	X	X	-	X	-	O	X	O	Style/Song	-	
Chorus Return Level	X	X	-	X	-	X	X	O	Style/Song	Chorus Return Level	
Natural Voice Chorus Type	X	O	Effect	X	-	O	X	O	Voice/Style/ Song	-	
Chorus Depth											
Acmp Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Effect	X	X	X	-	-	
Main,Layer	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Acmp(Offset)	X	X	-	X	-	X	X	O	Style	-	
Song(Offset)	X	X	-	X	-	X	X	X	-	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
DSP1 Type	X	O	Effect	O	Keyboard Voice	X	O	O	Voice/Song	-	
DSP1 Return Level	X	X	-	X	-	X	X	O	Voice/Song	DSP1 Return Level	
Natural Voice DSP Type	X	O	Effect	X	-	O	X	O	Voice/Style/ Song	-	
DSP Depth											
Style Part	X	X	-	X	-	O	X	O	Style	-	
Song Part	X	X	-	O	Effect	X	X	X	-	-	
Main,Layer	X	O	Effect	O	Keyboard Voice	X	O	O	Voice	-	
Left	X	O	Effect	O	Keyboard Voice	X	O	O	Style	-	
Mic	X	X	-	O	Mic. Setting	X	X	O	Mic	-	
Effect Parameter	X	X	-	X	-	X	X	X	-	-	

MIDI Data Format / MIDI-Datenformat / Format des données MIDI / Formato de datos MIDI

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter "H" as a suffix. Also, "n" can freely be defined as any whole number.
To enter data/values, refer to the table below.

Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary
0	00	0000 0000	32	20	0010 0000	64	40	0100 0000	96	60	0110 0000
1	01	0000 0001	33	21	0010 0001	65	41	0100 0001	97	61	0110 0001
2	02	0000 0010	34	22	0010 0010	66	42	0100 0010	98	62	0110 0010
3	03	0000 0011	35	23	0010 0011	67	43	0100 0011	99	63	0110 0011
4	04	0000 0100	36	24	0010 0100	68	44	0100 0100	100	64	0110 0100
5	05	0000 0101	37	25	0010 0101	69	45	0100 0101	101	65	0110 0101
6	06	0000 0110	38	26	0010 0110	70	46	0100 0110	102	66	0110 0110
7	07	0000 0111	39	27	0010 0111	71	47	0100 0111	103	67	0110 0111
8	08	0000 1000	40	28	0010 1000	72	48	0100 1000	104	68	0110 1000
9	09	0000 1001	41	29	0010 1001	73	49	0100 1001	105	69	0110 1001
10	0A	0000 1010	42	2A	0010 1010	74	4A	0100 1010	106	6A	0110 1010
11	0B	0000 1011	43	2B	0010 1011	75	4B	0100 1011	107	6B	0110 1011
12	0C	0000 1100	44	2C	0010 1100	76	4C	0100 1100	108	6C	0110 1100
13	0D	0000 1101	45	2D	0010 1101	77	4D	0100 1101	109	6D	0110 1101
14	0E	0000 1110	46	2E	0010 1110	78	4E	0100 1110	110	6E	0110 1110
15	0F	0000 1111	47	2F	0010 1111	79	4F	0100 1111	111	6F	0110 1111
16	10	0001 0000	48	30	0011 0000	80	50	0101 0000	112	70	0111 0000
17	11	0001 0001	49	31	0011 0001	81	51	0101 0001	113	71	0111 0001
18	12	0001 0010	50	32	0011 0010	82	52	0101 0010	114	72	0111 0010
19	13	0001 0011	51	33	0011 0011	83	53	0101 0011	115	73	0111 0011
20	14	0001 0100	52	34	0011 0100	84	54	0101 0100	116	74	0111 0100
21	15	0001 0101	53	35	0011 0101	85	55	0101 0101	117	75	0111 0101
22	16	0001 0110	54	36	0011 0110	86	56	0101 0110	118	76	0111 0110
23	17	0001 0111	55	37	0011 0111	87	57	0101 0111	119	77	0111 0111
24	18	0001 1000	56	38	0011 1000	88	58	0101 1000	120	78	0111 1000
25	19	0001 1001	57	39	0011 1001	89	59	0101 1001	121	79	0111 1001
26	1A	0001 1010	58	3A	0011 1010	90	5A	0101 1010	122	7A	0111 1010
27	1B	0001 1011	59	3B	0011 1011	91	5B	0101 1011	123	7B	0111 1011
28	1C	0001 1100	60	3C	0011 1100	92	5C	0101 1100	124	7C	0111 1100
29	1D	0001 1101	61	3D	0011 1101	93	5D	0101 1101	125	7D	0111 1101
30	1E	0001 1110	62	3E	0011 1110	94	5E	0101 1110	126	7E	0111 1110
31	1F	0001 1111	63	3F	0011 1111	95	5F	0101 1111	127	7F	0111 1111

- Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary) denotes the Note On Message for each channel (1-16). 176-191/BnH/ 1011 0000-1011 1111 denotes the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 denotes the Program Change Message for each channel (1-16). 240/FOH/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

MIDI CHANNEL MESSAGE (1)

O: available

MIDI Events	Status byte		1st Data byte			2nd Data byte			Corresponding Voice/Part			MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
	Status		Data	(HEX)	Parameter	Data	(HEX)	Parameter	Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI
Key Off	8nH	(n:Channel Number)	kk		Key no. (0~127)	vv		Velocity (0~127)	O	O	O	O	O	O	O	O	X	X	X	O	X
Key On	9nH	(n:Channel Number)	kk		Key no. (0~127)	vv		Key On: vv=1~127 Key Off: vv=0	O	O	O	O	O	O	O	O	O (Keyboard)	O	O	O	X
Control Change	BnH	(n:Channel Number)	0	(00H)	Bank Select MSB	0 64 126 127	(00H) (40H) (7EH) (7FH)	Normal SFX voice SFX kit Drum kit	O	X	O	O	O	O (Main)	O	O	O (Voice)	X	O	O	X
			1	(01H)	Modulation	0~127	(00H...7FH)	Data	O	X	X	O	O	O (Main/Layer/ Left)	O	O	O (Pedal)	O	O	O	X
			5	(05H)	Portamento Time	0~127	(00H...7FH)	Data	O	X	X	O	O	O (Main/Layer/ Left)	X	O	O (Mixing Console)	X	X	O	X
			6	(06H)	Data Entry MSB	0~127	(00H...7FH)	Data	O	O	O	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
			7	(07H)	Main Volume	0~127	(00H...7FH)	Data	O	X	O	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
			10	(0AH)	Panpot	0~127	(00H...7FH)	L64...C...R63	O	X	O	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
			11	(0BH)	Expression	0~127	(00H...7FH)	Data	O	X	O	O	O	O (Main/Layer/ Left)	O	O	O (Pedal)	O	O	O	X
			32	(20H)	Bank Select LSB	0~127	(00H...7FH)	Data	O	X	O	O	O	O (Main)	O	O	O (Voice)	X	O	O	X
			38	(26H)	Data Entry LSB	0~127	(00H...7FH)	Data	O	O	O	O	O	O (Main/Layer/ Left)	X	O	O (Mixing Console)	X	X	O	X
			64	(40H)	Sustain (Damper)	0~127	(00H...7FH)	Data	O	O	O	O	O	O (Main/Layer/ Left)	X	O	O (Pedal)	O	X	O	X
			65	(41H)	Portamento	0~127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	X	O	O	O (Main/Layer/ Left)	X	O	O (Poly/Mono Sw)	O	X	O	X
			66	(42H)	Sostenuto	0~127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O	O (Main/Layer/ Left)	X	O	O (Pedal)	O	X	O	X
			67	(43H)	Soft Pedal	0~127	(00H...7FH)	0...63, 64...127 (OFF, ON)	O	X	O	O	O	O (Main/Layer/ Left)	X	O	O (Pedal)	O	X	O	X
			71	(47H)	Harmonic Content	0~127	(00H...7FH)	-64...0...+63	O	X	X	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
			72	(48H)	Release Time	0~127	(00H...7FH)	-64...0...+63	O	X	X	O	O	O (Main/Layer/ Left)	O	O	O (Sound Creator)	X	O	O	X
			73	(49H)	Attack Time	0~127	(00H...7FH)	-64...0...+63	O	X	X	O	O	O (Main/Layer/ Left)	O	O	O (Sound Creator)	X	O	O	X
			74	(4AH)	Brightness	0~127	(00H...7FH)	-64...0...+63	O	X	X	O	O	O (Main/Layer/ Left)	X	O	O (Sound Creator)	X	O	O	X
			84	(54H)	Portamento Control	0~127	(00H...7FH)	Key no. (0~127)	O	X	X	O	O	X	O	O	O (Auto Accom- paniment)	X	X	O	X
			91	(5BH)	Effect1 Depth (Reverb Send Level)	0~127	(00H...7FH)	Data	O	X	O	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
			93	(5DH)	Effect3 Depth (Chorus Send Level)	0~127	(00H...7FH)	Data	O	X	O	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
			94	(5EH)	Effect4 Depth (Variation Send Level)	0~127	(00H...7FH)	Data	O	X	X	O	O	O (Main/ Layer/Left)	O	O	O (Mixing Console)	X	O	O	X
			96	(60H)	RPN Increment	-	-	*1	O	O	O	O	O	X	O	O	X	X	X	O	X
			97	(61H)	RPN Decrement	-	-	*1	O	O	O	O	O	X	O	O	X	X	X	O	X
			98	(62H)	NRPN LSB	0~127	(00H...7FH)	Data	O	O	X	O	O	X	O	O	O (Sound Creator)	X	O	O	X
			99	(63H)	NRPN MSB	0~127	(00H...7FH)	Data	O	O	X	O	O	X	O	O	O (Sound Creator)	X	O	O	X
			100	(64H)	RPN LSB	0~127	(00H...7FH)	Data	O	O	O	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
			101	(65H)	RPN MSB	0~127	(00H...7FH)	Data	O	O	O	O	O	O (Main/Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
Mode Message	BnH	(n:Channel Number)	120	(78H)	All Sound Off	0	(00H)	Data	O	X	O	O	O	O (Main/Layer/ Left)	O	O	X	X	X	O	X
			121	(79H)	Reset All Controllers	0	(00H)	Data	O	X	O	O	X	X	X	X	X	X	X	O	X
			123	(7BH)	All Note Off	0	(00H)	Data	O	O	O	O	O	O (Main/ Layer/Left)	O	O	X	X	X	O	X
			124	(7CH)	Omni Off	0	(00H)	Data	O	X	X	O	X	X	X	X	X	X	X	O	X
			125	(7DH)	Omni On	0	(00H)	Data	O	X	X	O	X	X	X	X	X	X	X	O	X
			126	(7EH)	Mono	0~16	(00H...10H)	Data	O	X	X	O	X	X	X	X	X	X	X	O	X
			127	(7FH)	Poly	0	(00H)	Data	O	X	X	O	X	X	X	X	X	X	X	O	X

MIDI Events	Status byte		1st Data byte			2nd Data byte			Corresponding Voice/Part			MIDI Reception (respond/ignore)						MIDI Transmission (generated data)				
	Status		Data	(HEX)	Parameter	Data	(HEX)	Parameter	Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI
Program Change	CnH	(n:Channel Number)	pp	(00H...7FH)	Voice Number (0~127)	-	-	-	O	X	O	O	O	O (Main)	O	O	O (Voice)	X	O	O	X
Channel After Touch	DnH	(n:Channel Number)	vv	(00H...7FH)	Data	-	-	-	O	X	X	O	O	O (Main/Layer/ Left)	X	O	X	X	X	O	X
Polyphonic After Touch	AnH	(n:Channel Number)	kk	(00H...7FH)	Key no. (0~127)	vv	(00H...7FH)	Data	X	X	X	X	X	X	X	X	X	X	X	O	X
Pitch Bend Change	EnH	(n:Channel Number)	cc	(00H...7FH)	LSB	dd	(00H...7FH)	MSB	O	O	O	O	O	O (Main/Layer/ Left)	O	O	O (Pedal)	O	O	O	X
Realtime Message	F8H	MIDI Clock	-		-	-		-	-	-	-	O (*2)					O (*3)				
	FAH	Start	-		-	-		-	-	-	-	O (*2)					O (*4)				
	FBH	Continue	-		-	-		-	-	-	-	X					X				
	FCH	Stop	-		-	-		-	-	-	-	O (*2)					O (*4)				
	FEH	Active Sens	-		-	-		-	-	-	-	O					O				
	FFH	System Reset	-		-	-		-	-	-	-	X					X				

*1 The data byte is ignored.
*2 Received when the Clock is set to External.
*3 Transmitted when the Clock is set to Internal and Transmit Clock is set to on.
*4 Transmitted when the Transmit Clock is set to on.

About Mic/Vocal Harmony column:
The relevant parameters are received by the song part designated by the Effect's Harmony Channel Parameter or Melody Parameter.

MIDI CHANNEL MESSAGE (2)

NRPN

NRPN		Data Entry		Parameter	Data Range	Corresponding Voice/Part			MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
MSB	LSB	MSB	LSB			Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI
01H	08H	mmH	--	Vibrato Rate	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	X	O	O	X	O	O	O (Sound Creator)	X	O	O	X
01H	09H	mmH	--	Vibrato Depth	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	X	O	O	X	O	O	O (Sound Creator)	X	O	O	X
01H	0AH	mmH	--	Vibrato Delay	mm: 00H-40H-7FH (-64...0...+63)	O	O (Harmony Channel/ Melody Channel)	X	O	O	X	O	O	O (Sound Creator)	X	O	O	X
01H	20H	mmH	--	Low Pass Filter Cutoff Frequency	mm: 00H-40H-7FH (-64...0...+63)	O	X	X	O	X	X	O	X	X	X	X	O	X
01H	21H	mmH	--	Low Pass Filter Resonance	mm: 00H-40H-7FH (-64...0...+63)	O	X	X	O	X	X	O	X	X	X	X	O	X
01H	63H	mmH	--	EG Attack Time	mm: 00H-40H-7FH (-64...0...+63)	O	X	X	O	X	X	O	X	X	X	X	O	X
01H	64H	mmH	--	EG Decay Time	mm: 00H-40H-7FH (-64...0...+63)	O	X	X	O	O	X	O	O	O (Sound Creator)	X	O	O	X
01H	66H	mmH	--	EG Release	mm: 00H-40H-7FH (-64...0...+63)	O	X	X	O	X	X	O	X	X	X	X	O	X
14H	rrH	mmH	--	Drum Low Pass Filter Cutoff Frequency	rr : drum instrument note number mm : 00H-40H-7FH (-64...0...+63)		X	X	O	X	X	X	X	X	X	O	O	X
15H	rrH	mmH	--	Drum Low Pass Filter Resonance	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		X	X	O	X	X	X	X	X	X	O	O	X
16H	rrH	mmH	--	Drum EG Attack Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		X	X	O	X	X	X	X	X	X	O	O	X
17H	rrH	mmH	--	Drum EG Decay Rate	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		X	X	O	X	X	X	X	X	X	O	O	X
18H	rrH	mmH	--	Drum Pitch Coarse	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		X	X	O	X	X	X	X	X	X	O	O	X
19H	rrH	mmH	--	Drum Pitch Fine	rr: drum instrument note number mm: 00H-40H-7FH (-64...0...+63)		X	X	O	X	X	X	X	X	X	O	O	X
1AH	rrH	mmH	--	Drum Level	rr: drum instrument note number mm: 00H-7FH (0...127)	O (Drum Only)	X	X	O	X	X	X	X	X	X	O	O	X
1CH	rrH	mmH	--	Drum Pan	rr: drum instrument note number mm: 00H, 01H-40H-7FH (RND, L63...C...R63)		X	X	O	X	X	X	X	X	X	O	O	X
1DH	rrH	mmH	--	Drum Reverb Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		X	X	O	X	X	X	X	X	X	O	O	X
1EH	rrH	mmH	--	Drum Chorus Send Level	rr: drum instrument note number mm: 00H-7FH (0...127)		X	X	O	X	X	X	X	X	X	O	O	X
1FH	rrH	mmH	--	Drum Variation Send Level	rr: drum instrument note number mm: 00H-7FH (0...127) (Variation Connection=SYSTEM) mm: 00H, 01H-7FH (OFF, ON) (Variation Connection=INSERTION)		X	X	O	X	X	X	X	X	X	O	O	X

NRPN MSB: 14H-1FH (for drums) message is accepted as long as the channel is set with a drum voice.
Data Entry LSB: Ignored.

RPN

NRPN		Data Entry		Parameter	Data Range	Corresponding Voice/Part			MIDI Reception (respond/ignore)					MIDI Transmission (generated data)				
MSB	LSB	MSB	LSB			Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Upper Lower	Style	Song	MIDI
00H	00H	mmH	--	Pitch Bend Sensitivity	mm: 00H-18H (0...+24[semitones])	O	O (Harmony Channel/ Melody Channel)	O	O	O	O (Main/ Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
00H	01H	mmH	llH	Fine Tune	mm ll : 00H 00H -100[cent] ... mm ll : 40H 00H 0[cent] ... mm ll : 7FH 7FH 100[cent]	O	X	O	O	O	O (Main/ Layer/ Left)	O	O	O (Mixing Console)	X	O	O	X
00H	02H	mmH	--	Coarse Tune	mm: 28H-40H-58H (-24...0...+24[semitones])	O	X	O	O	O	O (Main/ Layer/ Left)	O	O	X	X	O	O	X
7FH	7FH	--	--	Null	-	O	O	O	O	O	O (Main/ Layer/ Left)	O	O	X	X	O	O	X

MIDI PARAMETER CHANGE TABLE

* Not Received when Receive System Exclusive Message Parameters is set to off.
* Not transmitted when Transmit System Exclusive Message Parmeters is set to on.

MIDI Parameter Change table (XG SYSTEM)

O: available

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part: Regular	Mic	Natural Voice	MIDI Reception (effective or not for each part): Song	Main Layer Left	Keyboard	Style	Extra	MIDI Transmission (generated data): Panel (main generation method)	Style	Song	MIDI
00	00	00	4	00-0F	MASTER TUNE	-102.4...0...+102.3[cent]	*Panel setting value	O	X	O	O					O (Function)	X	O	X
		01		00-0F		1st bit 3-0→bit 15-12													
		02		00-0F		2nd bit 3-0→bit 11-8													
		03		00-0F		3rd bit 3-0→bit 7-4 4th bit 3-0→bit 3-0													
		04	1	00-7F	MASTER VOLUME	0...127	7F	O	X	O	O	X	X	X	X	X	X	O	X
		05	1	00-7F	MASTER ATTENUATOR	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
		06	1	28-58	TRANSPOSE	-24...0...+24[semitones]	40	O	X	O	O	X	X	X	X	X	X	O	X
		7D	1	N	DRUM SETUP RESET	N: Drum setup number	-	O (Drum only)	X	X	O	X	X	X	X	X	X	O	X
		7E	1	00	XG SYSTEM ON	00=XG system ON	-	O	X	O	O	X	X	X	O	X	X	O	X
		7F	1	00	ALL PARAMETER RESET	00=ON	-	O	X	O	O	X	X	X	O	X	X	O	X

TOTAL SIZE 07

MIDI Parameter Change table (SYSTEM INFORMATION)

Address (H)			Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part: Regular	Mic	Natural Voice	MIDI Reception (effective or not for each part): Song	Main Layer Left	Keyboard	Style	Extra	MIDI Transmission (generated data): Panel (main generation method)	Style	Song	MIDI
01	00	00	E	20-7F	Model Name 1	32...127(ASCII CHARACTER)	-	-	-	-	-	-	-	-	X	X	X	O
		...		...	...	...												
		0D		20-7F	Model Name 14	32...127(ASCII CHARACTER)												
		0E	1		NOT USED													
		0F	1		NOT USED													

TOTAL SIZE 10

Transmitted in response to Dump Request. Not received.

MIDI Parameter Change table (EFFECT1)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part: Regular	Mic	Natural Voice	MIDI Reception (effective or not for each part): Song / Main Layer Left / Keyboard / Style / Extra	MIDI Transmission (generated data): Panel (main generation method)	Style	Song	MIDI
02	01	00	2	00-7F	REVERB TYPE MSB	Refer to Effect Parameter List	01(=HALL1)	O	O	X	O	O (Mixing Console)	O	O	X
				00-7F	REVERB TYPE LSB	″	00								
		02	1	00-7F	REVERB PARAMETER 1	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console	O	O	X
		03	1	00-7F	REVERB PARAMETER 2	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		04	1	00-7F	REVERB PARAMETER 3	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		05	1	00-7F	REVERB PARAMETER 4	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		06	1	00-7F	REVERB PARAMETER 5	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		07	1	00-7F	REVERB PARAMETER 6	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		08	1	00-7F	REVERB PARAMETER 7	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		09	1	00-7F	REVERB PARAMETER 8	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		0A	1	00-7F	REVERB PARAMETER 9	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		0B	1	00-7F	REVERB PARAMETER 10	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		0C	1	00-7F	REVERB RETURN	-∞dB...0dB...+6dB (0...96...127)	40	O	O	X	O	O (Mixing Console)	O	O	X
		0D	1	01-7F	REVERB PAN	L63...C...R63	40	O	O	X	O	X	O	O	X

TOTAL SIZE 0E

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part: Regular	Mic	Natural Voice	MIDI Reception (effective or not for each part): Song / Main Layer Left / Keyboard / Style / Extra	MIDI Transmission (generated data): Panel (main generation method)	Style	Song	MIDI
02	01	10	1	00-7F	REVERB PARAMETER 11	Refer to Effect Parameter List	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		11	1	00-7F	REVERB PARAMETER 12	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		12	1	00-7F	REVERB PARAMETER 13	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		13	1	00-7F	REVERB PARAMETER 14	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		14	1	00-7F	REVERB PARAMETER 15	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X
		15	1	00-7F	REVERB PARAMETER 16	″	Depends on Reverb Type	O	O	X	O (*Depends on Reverb Type)	O (Mixing Console *Depends on Reverb Type)	O	O	X

TOTAL SIZE 06

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
								Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
02	01	20	2	00-7F	CHORUS TYPE MSB	Refer to Effect Parameter List	41(=CHORUS1)	O	O	X	O					O (Mixing Console)	O	O	X
				00-7F	CHORUS TYPE LSB	〃	00												
		22	1	00-7F	CHORUS PARAMETER 1	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		23	1	00-7F	CHORUS PARAMETER 2	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		24	1	00-7F	CHORUS PARAMETER 3	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		25	1	00-7F	CHORUS PARAMETER 4	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		26	1	00-7F	CHORUS PARAMETER 5	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		27	1	00-7F	CHORUS PARAMETER 6	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		28	1	00-7F	CHORUS PARAMETER 7	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		29	1	00-7F	CHORUS PARAMETER 8	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		2A	1	00-7F	CHORUS PARAMETER 9	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		2B	1	00-7F	CHORUS PARAMETER 10	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		2C	1	00-7F	CHORUS RETURN	-∞dB...0dB...+6dB (0...96...127)	40	O	O	X	O					O (Mixing Console)	O	O	X
		2D	1	01-7F	CHORUS PAN	L63...C...R63	40	O	O	X	O					X	X	O	X
		2E	1	00-7F	SEND CHORUS TO REVERB	-∞dB...0dB...+6dB (0...96...127)	00	O	O	X	O					X	X	O	X

TOTAL SIZE 0F

02	01	30	1	00-7F	CHORUS PARAMETER 11	Refer to Effect Parameter List	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		31	1	00-7F	CHORUS PARAMETER 12	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		32	1	00-7F	CHORUS PARAMETER 13	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		33	1	00-7F	CHORUS PARAMETER 14	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		34	1	00-7F	CHORUS PARAMETER 15	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X
		35	1	00-7F	CHORUS PARAMETER 16	〃	Depends on Chorus Type	O	O	X	O (*Depends on Chorus Type)					O (Mixing Console *Depends on Chorus Type)	O	O	X

TOTAL SIZE 06

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
								Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
02	01	40	2	00-7F	VARIATION TYPE MSB	Refer to Effect Parameter List	05(=DELAY L, C, R)	O	O	X	O					O (Mixing Console)	O	O	X
				00-7F	VARIATION TYPE LSB	〃	00												
		42	2	00-7F	VARIATION PARAMETER 1 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 1 LSB	〃													
		44	2	00-7F	VARIATION PARAMETER 2 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 2 LSB	〃													
		46	2	00-7F	VARIATION PARAMETER 3 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 3 LSB	〃													
		48	2	00-7F	VARIATION PARAMETER 4 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 4 LSB	〃													
		4A	2	00-7F	VARIATION PARAMETER 5 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 5 LSB	〃													
		4C	2	00-7F	VARIATION PARAMETER 6 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 6 LSB	〃													
		4E	2	00-7F	VARIATION PARAMETER 7 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 7 LSB	〃													
		50	2	00-7F	VARIATION PARAMETER 8 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 8 LSB	〃													
		52	2	00-7F	VARIATION PARAMETER 9 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 9 LSB	〃													
		54	2	00-7F	VARIATION PARAMETER 10 MSB	〃	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
				00-7F	VARIATION PARAMETER 10 LSB	〃													
		56	1	00-7F	VARIATION RETURN	-∞dB...0dB...+6dB (0...96...127)	40	O	O	X	O					O (Mixing Console)	O	O	X

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
								Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
		57	1	01-7F	VARIATION PAN	L63...C...R63	40	O	O	X	O					X	O	O	X
		58	1	00-7F	SEND VARIATION TO REVERB	-∞dB...0dB...+6dB (0...96...127)	00	O	O	X	O					X	O	O	X
		59	1	00-7F	SEND VARIATION TO CHORUS	-∞dB...0dB...+6dB (0...96...127)	00	O	O	X	O					X	O	O	X
		5A	1	00-01	VARIATION CONNECTION	INSERTION, SYSTEM	00	O	O	X	O					X	O	O	X
		5B	1	00-7F	VARIATION PART NUMBER	Reception: Part1...16(0...15) Transmission: Part1...16(0...15) AD(64) OFF(127)	7F	O	O	X	O					O (Mixing Console)	O	O	X
		5C	1	00-7F	MW VARIATION CONTROL DEPTH	-64...0...+63	40	O	O	X	O					X	O	O	X
		5D	1	00-7F	BEND VARIATION CONTROL DEPTH	-64...0...+63	40	O	O	X	O					X	O	O	X
		5E	1	00-7F	CAT VARIATION CONTROL DEPTH	-64...0...+63	40	O	O	X	O					X	O	O	X
		5F	1	00-7F	AC1 VARIATION CONTROL DEPTH	-64...0...+63	40	X	X	X	X					X	X	X	X
		60	1	00-7F	AC2 VARIATION CONTROL DEPTH	-64...0...+63	40	X	X	X	X					X	X	X	X

TOTAL SIZE 21

02	01	70	1	00-7F	VARIATION PARAMETER 11	Refer to Effect Parameter List	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
		71	1	00-7F	VARIATION PARAMETER 12	″	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
		72	1	00-7F	VARIATION PARAMETER 13	″	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
		73	1	00-7F	VARIATION PARAMETER 14	″	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
		74	1	00-7F	VARIATION PARAMETER 15	″	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X
		75	1	00-7F	VARIATION PARAMETER 16	″	Depends on Variation Type	O	O	X	O (*Depends on Variation Type)					O (Mixing Console *Depends on Variation Type)	O	O	X

TOTAL SIZE 06

MIDI Parameter Change table (MULTI PART)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
								Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
08	nn	00	1	00-20	ELEMENT RESERVE	0...32	part10=00, other parts=02	O	X	X	O	X	X	X	X	X	X	O	X
		01	1	00-7F	BANK SELECT MSB	0...127	part10=7F, other parts =00	O	X	O	O	O	X	O	O	X	X	O	X
		02	1	00-7F	BANK SELECT LSB	0...127	00	O	X	O	O	O	X	O	O	X	X	O	X
		03	1	00-7F	PROGRAM NUMBER	0...127	00	O	X	O	O	O	X	O	O	X	X	O	X
		04	1	00-0F,7F	Rcv CHANNEL	1...16, OFF	Part No.	O	X	X	O	X	X	X	X	X	X	O	X
		05	1	00-01	MONO/POLY MODE	MONO, POLY	01	O	X	X	O	X	X	X	X	X	X	O	X
		06	1	00-02	SAME NOTE NUMBER KEY ON ASSIGN	SINGLE, MULTI, INST (for Drum)	01	O	X	X	O	X	X	O	X	X	X	O	X
		07	1	00-03	PART MODE	NORMAL, DRUM, DRUMS1...2	part10=02, other parts=00	O	X	O	O	X	X	X	X	O (Drum Voice)	X	O	X
		08	1	00-7F	CHANNEL TRANSPOSE	-24...0...+24[semitones]	40	O	X	O	O	O	X	O	O	X	X	O	X
		09 0A	2	00-0F 00-0F	DETUNE	-12.8...0...+12.7[Hz] 1st bit3-0→bit7-4 2nd bit3-0→bit3-0	08 00	O	X	O	O	O	X	O	O	X	X	O	X
		0B	1	00-7F	VOLUME	0...127	64	O	X	O	O	O	X	O	O	X	X	O	X
		0C	1	00-7F	VELOCITY SENSE DEPTH	0...127	40	O	X	O	O	O	X	X	O	O (Sound Creator)	X	O	X
		0D	1	00-7F	VELOCITY SENSE OFFSET	0...127	40	O	X	O	O	O	X	X	O	O (Sound Creator)	X	O	X
		0E	1	00-7F	PAN	RND, L63...C...R63	40	O	X	O	O	O	X	O	O	X	X	O	X
		0F	1	00-7F	NOTE LIMIT LOW	C-2...G8	00	O	X	X	O	X	X	X	X	X	X	O	X
		10	1	00-7F	NOTE LIMIT HIGH	C-2...G8	7F	O	X	X	O	X	X	X	X	X	X	O	X
		11	1	00-7F	DRY LEVEL	0...127	7F	O	X	X	O	O	X	O	O	O (Sound Creator)	X	O	X
		12	1	00-7F	CHORUS SEND	0...127	00	O	X	O	O	O	X	O	O	X	X	O	X
		13	1	00-7F	REVERB SEND	0...127	28	O	X	O	O	O	X	O	O	X	X	O	X
		14	1	00-7F	VARIATION SEND	0...127	00	O	X	X	O	O	X	O	O	X	X	O	X
		15	1	00-7F	VIBRATO RATE	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		16	1	00-7F	VIBRATO DEPTH	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		17	1	00-7F	VIBRATO DELAY	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		18	1	00-7F	FILTER CUTOFF FREQUENCY	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		19	1	00-7F	FILTER RESONANCE	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		1A	1	00-7F	EG ATTACK TIME	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		1B	1	00-7F	EG DECAY TIME	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		1C	1	00-7F	EG RELEASE TIME	-64...0...+63	40	O	X	X	O	O	X	O	O	X	X	O	X
		1D	1	28-58	MW PITCH CONTROL	-24...0...+24[semitones]	40	O	X	X	O	O	X	O	O	X	X	O	X
		1E	1	00-7F	MW LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	X	O	O	X	O	O	X	X	O	X
		1F	1	00-7F	MW AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	X	O	O	X	O	O	X	X	O	X
		20	1	00-7F	MW LFO PMOD DEPTH	0...127	0A	O	X	X	O	O	X	O	O	X	X	O	X
		21	1	00-7F	MW LFO FMOD DEPTH	0...127	00	O	X	X	O	O	X	O	O	X	X	O	X
		22	1	00-7F	MW LFO AMOD DEPTH	0...127	00	O	X	X	O	O	X	O	O	X	X	O	X
		23	1	28-58	BEND PITCH CONTROL	-24...0...+24[semitones]	42	O	X	O	O	O	X	O	O	X	X	O	X
		24	1	00-7F	BEND LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	X	O	O	X	O	O	X	X	O	X
		25	1	00-7F	BEND AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	X	O	O	X	O	O	X	X	O	X
		26	1	00-7F	BEND LFO PMOD DEPTH	0...127	00	O	X	X	O	O	X	O	O	X	X	O	X
		27	1	00-7F	BEND LFO FMOD DEPTH	0...127	00	O	X	X	O	O	X	O	O	X	X	O	X
		28	1	00-7F	BEND LFO AMOD DEPTH	0...127	00	O	X	X	O	O	X	O	O	X	X	O	X

TOTAL SIZE 29

Address (H)	Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
						Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
30	1	00-01	Rcv PITCH BEND	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
31	1	00-01	Rcv CH AFTER TOUCH (CAT)	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
34	1	00-01	Rcv POLY AFTER TOUCH (PAT)	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
35	1	00-01	Rcv NOTE MESSAGE	OFF, ON	01	O	X	O	O	X	X	X	X	X	X	O	X
36	1	00-01	Rcv RPN	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
37	1	00-01	Rcv NRPN	OFF, ON	XG mode=01, GM mode=00	X	X	X	X	X	X	X	X	X	X	X	X
38	1	00-01	Rcv MODULATION	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
39	1	00-01	Rcv VOLUME	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
3A	1	00-01	Rcv PAN	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
3B	1	00-01	Rcv EXPRESSION	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
3C	1	00-01	Rcv HOLD1	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
3D	1	00-01	Rcv PORTAMENTO	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
3E	1	00-01	Rcv SOSTENUTO	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
3F	1	00-01	Rcv SOFT PEDAL	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
40	1	00-01	Rcv BANK SELECT	OFF, ON	01	X	X	X	X	X	X	X	X	X	X	X	X
41	1	00-7F	SCALE TUNING C	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
42	1	00-7F	SCALE TUNING C#	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
43	1	00-7F	SCALE TUNING D	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
44	1	00-7F	SCALE TUNING D#	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
45	1	00-7F	SCALE TUNING E	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
46	1	00-7F	SCALE TUNING F	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
47	1	00-7F	SCALE TUNING F#	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
48	1	00-7F	SCALE TUNING G	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
49	1	00-7F	SCALE TUNING G#	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
4A	1	00-7F	SCALE TUNING A	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
4B	1	00-7F	SCALE TUNING A#	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
4C	1	00-7F	SCALE TUNING B	-63...0...+63[cent]	40	O	X	O	O	O	X	O	O	O (Function)	X	O	X
4D	1	28-58	CAT PITCH CONTROL	-24...0...+24[semitones]	40	O	X	X	O	O	X	X	O	X	X	O	X
4E	1	00-7F	CAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	O	X	X	O	O	X	X	O	X	X	O	X
4F	1	00-7F	CAT AMPLITUDE CONTROL	-100...0...+100[%]	40	O	X	X	O	O	X	X	O	X	X	O	X
50	1	00-7F	CAT LFO PMOD DEPTH	0...127	00	O	X	X	O	O	X	X	O	X	X	O	X
51	1	00-7F	CAT LFO FMOD DEPTH	0...127	00	O	X	X	O	O	X	X	O	X	X	O	X
52	1	00-7F	CAT LFO AMOD DEPTH	0...127	00	O	X	X	O	O	X	X	O	X	X	O	X
53	1	28-58	PAT PITCH CONTROL	-24...0...+24[semitones]	40	X	X	X	X	X	X	X	X	X	X	X	X
54	1	00-7F	PAT LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	X	X	X	X	X	X	X	X	X	X	X	X
55	1	00-7F	PAT AMPLITUDE CONTROL	-100...0...+100[%]	40	X	X	X	X	X	X	X	X	X	X	X	X
56	1	00-7F	PAT LFO PMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
57	1	00-7F	PAT LFO FMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
58	1	00-7F	PAT LFO AMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	10	X	X	X	X	X	X	X	X	X	X	X	X
5A	1	28-58	AC1 PITCH CONTROL	-24...0...+24[semitones]	40	X	X	X	X	X	X	X	X	X	X	X	X
5B	1	00-7F	AC1 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	X	X	X	X	X	X	X	X	X	X	X	X
5C	1	00-7F	AC1 AMPLITUDE CONTROL	-100...0...+100[%]	40	X	X	X	X	X	X	X	X	X	X	X	X
5D	1	00-7F	AC1 LFO PMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
5E	1	00-7F	AC1 LFO FMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
5F	1	00-7F	AC1 LFO AMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	11	X	X	X	X	X	X	X	X	X	X	X	X
61	1	28-58	AC2 PITCH CONTROL	-24...0...+24[semitones]	40	X	X	X	X	X	X	X	X	X	X	X	X
62	1	00-7F	AC2 LOW PASS FILTER CONTROL	-9600...0...+9450[cent]	40	X	X	X	X	X	X	X	X	X	X	X	X
63	1	00-7F	AC2 AMPLITUDE CONTROL	-100...0...+100[%]	40	X	X	X	X	X	X	X	X	X	X	X	X
64	1	00-7F	AC2 LFO PMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
65	1	00-7F	AC2 LFO FMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
66	1	00-7F	AC2 LFO AMOD DEPTH	0...127	00	X	X	X	X	X	X	X	X	X	X	X	X
67	1	00-01	PORTAMENTO SWITCH	OFF, ON	00	O	X	X	O	O	X	X	O	X	X	O	X
68	1	00-7F	PORTAMENTO TIME	0...127	00	O	X	X	O	O	X	X	O	X	X	O	X
69	1	00-7F	PITCH EG INITIAL LEVEL	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X
6A	1	00-7F	PITCH EG ATTACK TIME	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X
6B	1	00-7F	PITCH EG RELEASE LEVEL	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X
6C	1	00-7F	PITCH EG RELEASE TIME	-64...0...+63	40	X	X	X	X	X	X	X	X	X	X	X	X
6D	1	01-7F	VELOCITY LIMIT LOW	1...127	01	X	X	X	X	X	X	X	X	X	X	X	X
6E	1	01-7F	VELOCITY LIMIT HIGH	1...127	7F	X	X	X	X	X	X	X	X	X	X	X	X

TOTAL SIZE 3F

70	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
71	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
72	1	00-7F	EQ BASS GAIN	-12dB...+12dB	40	O (*2)	X	X	O (*2)	O (*2)	X	O (*2)	O (*2)	O (Mixing Console) (*2)	O	O	X
73	1	00-7F	EQ TREBLE GAIN	-12dB...+12dB	40	O (*2)	X	X	O (*2)	O (*2)	X	O (*2)	O (*2)	O (Mixing Console) (*2)	O	O	X

TOTAL SIZE 04

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
								Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
		74	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		75	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		76	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	O (*2)	X	X	O (*2)	O (*2)	X	X	O (*2)	O (Sound Creator) (*2)	X	O	X
		77	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	O (*2)	X	X	O (*2)	O (*2)	X	X	O (*2)	O (Sound Creator) (*2)	X	O	X
		78	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		79	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		7A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		7B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		7C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		7D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		7E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		7F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-

TOTAL SIZE 0C

nn = PART NUMBER

If there is a Drum Voice assigned to the part, the following parameters are ineffective.
- BANK SELECT LSB
- MONO/POLY MODE
- SCALE TUNING
- PORTAMENTO
- PITCH EG
- FILTER MODULATION DEPTH (FMOD DEPTH)
- AMPLITUDE MODULATION DEPTH (AMOD DEPTH)

*2 The following parameters are not accepted, or are not transmitted by the Panel operations.
- EQ BASS GAIN
- EQ TREBLE GAIN
- EQ BASS FREQUENCY
- EQ TREBLE FREQUENCY

MIDI Parameter Change table (A/D PART)

Address (H)			Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
							Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
10	00	00	1	00-01	INPUT GAIN	MIC, LINE	X	X	X	X	X	X	X	X	X	X	X	X
		01	1	00-7F	BANK SELECT MSB	0...127	X	X	X	X	X	X	X	X	X	X	X	X
		02	1	00-7F	BANK SELECT LSB	0...127	X	X	X	X	X	X	X	X	X	X	X	X
		03	1	00-7F	PROGRAM NUMBER	0...127	X	X	X	X	X	X	X	X	X	X	X	X
		04	1	00-1F,7F	Rcv CHANNEL	1...16,OFF	X	O	X	X	X	X	X	X	X	X	O	X
		05	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		06	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		07	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		08	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		09	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0B	1	00-7F	VOLUME	0...127	X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		0C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		0E	1	01-7F	PAN	L63...C...R63	X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		0F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		10	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		11	1	00-7F	DRY LEVEL		X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		12	1	00-7F	CHORUS SEND		X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		13	1	00-7F	REVERB SEND		X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X
		14	1	00-7F	VARIATION SEND		X	O	X	X	X	X	X	X	O (Mixing Console)	X	O	X

TOTAL SIZE 15

10	0n	30	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		31	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		32	1	00-01	Rcv PROGRAM CHANGE	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		33	1	00-01	Rcv CONTROL CHANGE	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		34	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		35	1	00-01	MUTE	ON, OFF	X	X	X	X	X	X	X	X	X	X	X	X
		36	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		37	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		38	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		39	1	00-01	Rcv VOLUME	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		3A	1	00-01	Rcv PAN	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		3B	1	00-01	Rcv EXPRESSION	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		3C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		3D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		3E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		3F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		40	1	00-01	Rcv BANK SELECT	OFF, ON	X	X	X	X	X	X	X	X	X	X	X	X
		41	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		42	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		43	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		44	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		45	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		46	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		47	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		48	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		49	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		4F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		50	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		51	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		52	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		53	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		54	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		55	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		56	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		57	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		58	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-

Address (H)			Size (H)	Data (H)	Parameter	Description	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
							Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
		59	1	00-5F	AC1 CONTROLLER NUMBER	0...95	X	X	X	X	X	X	X	X	X	X	X	X
		5A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		5B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		5C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		5D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		5E	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		5F	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-
		60	1	00-5F	AC2 CONTROLLER NUMBER	0...95	X	X	X	X	X	X	X	X	X	X	X	X

TOTAL SIZE 31

The A/D PART Parameter cannot be reset to its factory setting with XG SYSTEM ON.

MIDI Parameter Change table (DRUM SETUP)

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
								Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
3n	rr	00	1	00-7F	PITCH COARSE	-64...0...+63	40	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		01	1	00-7F	PITCH FINE	-64...0...+63[cent]	40	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		02	1	00-7F	LEVEL	0...127	Depends on the note	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		03	1	00-7F	ALTERNATE GROUP	OFF, 1...127	Depends on the note	O (Drum only)	X	X	O	X	X	X	X	X	X	O	X
		04	1	00-7F	PAN	RND, L63...C...R63	Depends on the note	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		05	1	00-7F	REVERB SEND	0...127	Depends on the note	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		06	1	00-7F	CHORUS SEND	0...127	Depends on the note	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		07	1	00-7F	VARIATION SEND	0...127	7F	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		08	1	00-01	KEY ASSIGN	SINGLE, MULTI	00	O (Drum only)	X	X	O	X	X	X	X	X	X	O	X
		09	1	00-01	Rcv NOTE OFF	OFF, ON	Depends on the note	O (Drum only)	X	X	O	X	X	X	X	X	X	O	X
		0A	1	00-01	Rcv NOTE ON	OFF, ON	01	O (Drum only)	X	X	O	X	X	X	X	X	X	O	X
		0B	1	00-7F	LOW PASS FILTER CUTOFF FREQUENCY	-64...0...+63	40	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		0C	1	00-7F	LOW PASS FILTER RESONANCE	-64...0...+63	40	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		0D	1	00-7F	EG ATTACK RATE	-64...0...+63	40	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		0E	1	00-7F	EG DECAY1 RATE	-64...0...+63	40	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X
		0F	1	00-7F	EG DECAY2 RATE	-64...0...+63	40	O (Drum only)	X	X	O	X	X	X	X	X	O	O	X

TOTAL SIZE 10

Address (H)			Size (H)	Data (H)	Parameter	Description	XG Default (H)	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Transmission (generated data)			
								Regular/ Organ Voice	Mic/Vocal Harmony	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra	Panel (main generation method)	Style	Song	MIDI
		20	1	00-7F	EQ BASS GAIN	-12...+12[dB]	40	X	X	X	X	X	X	X	X	X	X	X	X
		21	1	00-7F	EQ TREBLE GAIN	-12...+12[dB]	40	X	X	X	X	X	X	X	X	X	X	X	X
		22	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		23	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		24	1	04-28	EQ BASS FREQUENCY	32...2.0k[Hz]	0C	X	X	X	X	X	X	X	X	X	X	X	X
		25	1	1C-3A	EQ TREBLE FREQUENCY	500...16.0k[Hz]	36	X	X	X	X	X	X	X	X	X	X	X	X
		26	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		27	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		28	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		29	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		2A	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		2B	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		2C	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-
		2D	1		NOT USED		-	-	-	-	-	-	-	-	-	-	-	-	-

TOTAL SIZE 0E

n: Drum Setup Number (0-1)
rr: note number (0D-5B)

In the following cases, the PF-1000 will initialize all Drum Setups.
XG SYSTEM ON received
GM SYSTEM ON received
DRUM SETUP RESET received (only when in XG mode)

[Note]
When a part to which a Drum Setup is assigned receives a program change, the assigned Drum Setup will be initialized.
If the same Drum Setup is assigned to two or more parts, changes in Drum Setup parameters (including program changes) will apply to all parts to which it is assigned.

SYSTEM EXCLUSIVE MESSAGES

* Not received when the Receive System Exclusive Message is set to off.
* Not transmitted when the Transmit System Exclusive Message is set to on.

System Exclusive Messages

O: available

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
Section Control	F0 43 7E 00 ss dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000000 00 = 0sssssss ss = Switch No. 00H INTRO A 01H INTRO B 02H INTRO C 03H INTRO D 08H MAIN A 09H MAIN B 0AH MAIN C 0BH MAIN D 10H FILL IN AA 11H FILL IN BB 12H FILL IN CC 13H FILL IN DD 18H BREAK FILL 20H ENDING A 21H ENDING B 22H ENDING C 23H ENDING D 0ddddddd dd = Switch On/Off 00H (Off) 7HF (On) 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	O (Section LED)	O (Section Sw)	X	O	X
Tempo Control	F0 43 7E 01 t4 t3 t2 t1 F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000001 01 = 0ttttttt t4 = tempo4 0ttttttt t3 = tempo3 0ttttttt t2 = tempo2 0ttttttt t1 = tempo1 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	O (Tempo indication)	O (Tempo Sw)	X	O	X
Chord Control	F0 43 7E tt d1 d2 d3 d4 F7 Type 1 (tt=2) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000010 02 = type 1 0ddddddd d1 = chord root(cr) 0ddddddd d2 = chord type(ct) 0ddddddd d3 = bass note(bn) 0ddddddd d4 = bass type(bt) 11110111 F7 = End of Exclusive cr: Chord Root 0fffnnnn fff: b or #, nnnn: note(root) 0000nnnn 0n bbb 0fff0000 x0 reserved 0001nnnn 1n bb 0fff0001 x1 C 0010nnnn 2n b 0fff0010 x2 D 0011nnnn 3n natural 0fff0011 x3 E 0100nnnn 4n # 0fff0100 x4 F 0101nnnn 5n ## 0fff0101 x5 G 0110nnnn 6n ### 0fff0110 x6 A 0fff0111 x7 B ct: Chord Type 0 - 34,127 00000000 00 0 Maj 00010010 12 18 dim7 00000001 01 1 Maj6 00010011 13 19 7th 00000010 02 2 Maj7 00010100 14 20 7sus4 00000011 03 3 Maj7(#11) 00010101 15 21 7b5 00000100 04 4 Maj(9) 00010110 16 22 7(9) 00000101 05 5 Maj7(9) 00010111 17 23 7(#11) 00000110 06 6 Maj6(9) 00011000 18 24 7(13) 00000111 07 7 aug 00011001 19 25 7(b9) 00001000 08 8 min 00011010 1A 26 7(b13) 00001001 09 9 min6 00011011 1B 27 7(#9) 00001010 0A 10 min7 00011100 1C 28 Maj7aug 00001011 0B 11 min7b5 00011101 1D 29 7aug 00001100 0C 12 min(9) 00011110 1E 30 1+8 00001101 0D 13 min7(9) 00011111 1F 31 1+5 00001110 0E 14 min7(11) 00100000 20 32 sus4 00001111 0F 15 minMaj7 00100001 21 33 1+2+5 00010000 10 16 minMaj7(9) 00100010 22 34 cc 00010001 11 17 dim bn : On Bass Chord Same as Chord root 127:No bass chord bt : Bass Chord Same as Chord type 127:No bass chord * Not received when Receive Chord System Exclusive Message is set to off. * Not transmitted when Transmit Chord System Exclusive Message is set to on.	-	-	-	-	-	-	-	-	O (Chord indication)	O (Keyboard)	X	O	X
	Type2 (tt=3) 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01111110 7E = Style 00000011 03 = type 2 0ddddddd dd = note1 0ddddddd dd = note2 0ddddddd dd = note3 : : 0ddddddd dd = ... note10 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	O (Chord indication)	X	X	X	X

System Exclusive Messages (Universal Realtime messages)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
Master Volume	F0 7F 7F 04 01 ll mm F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 01111111 7F = ID of target device 00000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 01111111 ll = Volume LSB 0mmmmmmm mm= Volume MSB 11110111 F7 = End of Exclusive or F0 7F XN 04 01 ll mm F7 11110000 F0 = Exclusive status 01111111 7F = Universal Real Time 0xxxnnnn XN = When N is received N=0-F, whichever is received. X=ignored 00000100 04 = Sub-ID #1=Device Control Message 00000001 01 = Sub-ID #2=Master Volume 01111111 ll = Volume LSB 0mmmmmmm mm= Volume MSB 11110111 F7 = End of Exclusive	O	-	O	O	X	X	X	X	X	X	X	X (Output as XG Master Volume)	X

System Exclusive Messages (Universal Non Realtime messages)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
General MIDI System On	F0 7E 7F 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 01111111 7F = ID of target device 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive or F0 7E XN 09 01 F7 11110000 F0 = Exclusive status 01111110 7E = Universal Non-Real Time 0xxxnnnn XN = When N is received N=0-F,whichever is received. X=ignored 00001001 09 = Sub-ID #1=General MIDI Message 00000001 01 = Sub-ID #2=General MIDI On 11110111 F7 = End of Exclusive	O	-	O	O	X	X	X	O	O (Mixing Console)	X	X	O	X

System Exclusive Messages (XG)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
XG Parameter Change	F0 43 1n 4C hh mm ll dd ... F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n = Device Number n=always 0 (when transmit), n=0-F (when recieve) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 11110111 F7 = End of Exclusive	*Refer to Parameter Change Table			*Refer to Parameter Change Table					-	*Refer to Parameter Change Table			O (When receiving the XG Parameter Request)
XG Bulk Dump	F0 43 0n 4C aa bb hh mm ll dd ... dd cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0000nnnn 0n = Device Number n=always 0 (when transmit), n=0-F (when recieve) 01001100 4C = Model ID 0aaaaaaa aa = Byte Count MSB 0bbbbbbb bb = Byte Count LSB 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 0ddddddd dd = Data : : 0ddddddd dd = Data 0ccccccc cc = Checksum 11110111 F7 = End of Exclusive	*Refer to Parameter Change Table			*Refer to Parameter Change Table					-	X	X	X (Output as Parameter Change)	O (When receiving the XG Dump Request)
XG Parameter Request	F0 43 3n 4C hh ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0011nnnn 3n = Device Number n=always 0 (when transmit), n=0-F (when recieve) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	O (-)	X	X	X	X
XG Dump Request	F0 43 2n 4C hh mm ll F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0010nnnn 2n = Device Number n=always 0 (when transmit), n=0-F (when recieve) 01001100 4C = Model ID 0hhhhhhh hh = Address High 0mmmmmmm mm= Address Mid 01111111 ll = Address Low 11110111 F7 = End of Exclusive	-	-	-	-	-	-	-	-	O (-)	X	X	X	X

System Exclusive Messages (Clavinova compliance)

```
11110000  F0  = Exclusive status
01000011  43  = YAMAHA ID
01110011  73  = Clavinova ID
    :              :
11110111  F7  = End of Exclusive
```

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
Internal Clock	F0 43 73 01 02 F7 00000001 01 = Model ID (Clavinova common ID) 00000010 02 = Internal Clock Substatus	-	-	-	X	X	X	X	X	O (Function)	X	X	X	X
External Clock	F0 43 73 01 03 F7 00000001 01 = Model ID (Clavinova common ID) 00000011 03 = External Clock Substatus	-	-	-	X	X	X	X	X	O (Function)	X	X	X	X
Natural Voice Reverb Type	F0 43 73 01 31 0n 00 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nnnn 0n = Channel No. (Always 00) 00000000 00 = Natural Voice Reverb Type Substatus 0ddddddd dd = data (0:Room, 1:Hall1, 2:Hall2, 3:Stage, 4:Plate)	X	X	O	O					O (Sound Creator)	O (Sound Creator)	O	O	X
Natural Voice Chorus Type	F0 43 73 01 31 0n 01 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nnnn 0n = Channel No. (Always 00) 00000001 01 = Natural Voice Chorus Type Substatus 0ddddddd dd = data (0:Chorus,1:Celeste, 2:Flanger)	X	X	O	O					O (Sound Creator)	O (Sound Creator)	O	O	X
Natural Voice Variation Type	F0 43 73 01 31 0n 02 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nnnn 0n = Channel No. (Always 00) 00000010 02 = Natural Voice Variation Type Substatus 0ddddddd dd = data (00H:DelayLCR, 01H:DelayLR, 02H:Echo, 03H:CrossDelay, 04H:Symphonic, 05H:RotarySpeaker, 06H:Tremolo, 07H:VibeRotor, 08H:AutoPan, 09H:Phaser, 0AH:AutoWah, 0BH:SoundBoardRev, 0CH:Off)	X	X	O	O					O (Sound Creator)	O (Sound Creator)	O	O	X
Natural Voice Vibe Rotor Control	F0 43 73 01 31 0n 08 dd F7 00000001 01 = Model ID (Clavinova common ID) 00110001 31 = Natural Voice Exclusive data 0000nnnn 0n = Channel No. (Always 00) 00001000 08 = Natural Voice Vibe Rotor Control Substatus 0ddddddd dd = data (00H:Off, 7FH:On)	X	X	O (If the Type is set to Vibe Rotor)	O					O (Sound Creator)	O (Sound Creator)	X	O	X
Natural Voice Variation Send Level	F0 43 73 01 50 11 0n 00 dd F7 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Common Model data 00010001 11 = Song Track related 0000nnnn 0n = Channel No. 00000000 00 = Natural Voice Variation Send Level Substatus 0ddddddd dd = data (00H~7FH)	X	X	O	O	O	X	O	O	O (Mixing Console)	O (Mixing Console)	O	O	X
Natural Voice Dry Level	F0 43 73 01 50 11 0n 01 dd F7 00000001 01 = Model ID (Clavinova common ID) 01010000 50 = Common Model data 00010001 11 = Song Track related 0000nnnn 0n = Channel No. 00000001 01 = Natural Voice Dry Level Substatus 0ddddddd dd = data (00H~7FH)	X	X	O	O	O	X	O	O	O (Mixing Console)	O (Mixing Console)	O	O	X

System Exclusive Messages Special Operators

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
Volume & Expression & Pan Realtime control off (Voice Reserve)	F0 43 73 01 11 0n 45 dd F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 01110011 73 = Clavinova ID 00000001 01 = Model ID (Clavinova common ID) 00010001 11 = Special Operators 0000nnnn 0n = Channel No. 01000101 45 = Volume & Expression Control No. Substatus 0ddddddd dd = data (00H : Realtime On, 7FH : Realtime Off) 11110111 F7 = End of Exclusive	O	-	O	O	X	X	X	X	X	X	X	O	X

System Exclusive Messages (Others)

MIDI Event	Data Format	Corresponding Voice/Part			MIDI Reception (effective or not for each part)					MIDI Reception (affecting the panel)	MIDI Transmission (generated data)			
		Regular	Mic	Natural Voice	Song	Main Layer Left	Keyboard	Style	Extra		Panel (main generation method)	Style	Song	MIDI
MIDI Master Tuning	F0 43 1n 27 30 00 00 mm ll cc F7 11110000 F0 = Exclusive status 01000011 43 = YAMAHA ID 0001nnnn 1n n= always 0(when transmit), n=0-F(when receive) 00100111 27 = Model ID of TG100 00110000 30 = Address High 00000000 00 = Address Mid 00000000 00 = Address Low 0000mmmm 0m = Master Tune MSB 00001111 0l = Master Tune LSB 0ccccccc cc = don't care 11110111 F7 = End of Exclusive	O	X	O	O					O (Function)	X	X	X	X

Song System Exclusive Message List
Liste der System-Exclusive-Meldungen der Songs
Liste des messages exclusifs au système de morceaux
Lista de mensajes exclusivos del sistema de canciones

Data Format	Parameter	Description

Panel Setting

Data Format	Parameter	Description
F0 43 73 01 22 00 0n mm ll pp F7	Panel Program Change	mm=Bank Select MSB, ll=Bank Select LSB, nn=Program Change
F0 43 73 01 22 01 0n vv F7	Panel Voice Volume	00H~07FH
F0 43 73 01 22 02 0n vv F7	Panel Voice Reverb Depth	00H~07FH
F0 43 73 01 22 03 0n vv F7	Panel Voice Effect Depth	00H~07FH

Score

Data Format	Parameter	Description
F0 43 73 01 50 12 00 dd F7	Left Part indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 01 dd F7	Right Part indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 02 dd F7	Lyrics indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 03 dd F7	Chord indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 04 dd F7	N.Name indication On/Off	00H: OFF, 7FH: ON
F0 43 73 01 50 12 05 dd F7	Size designation	00H: SMALL, 01H: MIDDLE, 02H: LARGE, 03H: Xlarge
F0 43 73 01 50 12 06 dd F7	Left Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO
F0 43 73 01 50 12 07 dd F7	Right Ch	00H~0FH=CH, 7EH=OFF, 7FH=AUTO
F0 43 73 01 50 12 08 dd F7	Quantize triplet On/Off	00H: Triplet OFF, 7FH: Triplet ON
F0 43 73 01 50 12 09 dd F7	Quantize	00H: quarter, 01H: eighth, 02H: sixteenth, 03H: thirty-second
F0 43 73 01 50 12 0A dd F7	NoteName	00H: ABC, 01H: FixedDo, 02H: MovableDo
F0 43 73 01 50 12 0B dd F7	Color Note	00H: OFF, 7FH: ON

Style

Data Format	Parameter	Description
F0 43 73 01 11 00 16 dd dd F7	Style No.	dd dd=StyleNo.
F0 43 73 01 51 05 00 00 08 Rhy1 Rhy2 Bass Chd1 Chd2 Pad Phr1 Phr2	Style Part On / Off	00H: OFF, 01H:ON
F0 43 73 01 51 00 00 00 03 10 00 dd F7	ACMP SPLIT POINT	00H~7FH

Song Meta Event List
Liste der Meta-Events der Songs
Liste des méta-événements des morceaux
Lista de meta-eventos de canciones

Data Format	Parameter	Description

SMF META Event

Data Format	Parameter	Description
FF 01 len [Data]	TEXT	len=Data length, [Data]=Text data
FF 02 len [Data]	Copyright	len=Data length, [Data]=Copyright data
FF 03 len [Data]	Sequence Name	len=Data length, [Data]=Sequence Name
FF 05 len [Data]	Lyrics	len=Data length, [Data]=Lyrics data
FF 2F 00	End Of Track	
FF 51 03 t1 t2 t3	Set Tempo	t1 t2 t3 = 01D4C0H~B71B00 (5~500)
FF 58 04 nn dd cc bb	Beat (Time signature)	nn =Denominator (2^n), dd=Numerator, CC=MIDI clock per metronome click, dd=Number of thirty-second notes in MIDI quarter note
FF 59 02 sf mi	Key Signature	sf=-7~7 (7♭~7♯) mi=0:Major key, 1:Minor key

YAMAHA META Event

Data Format	Parameter	Description
FF 7F 07 43 73 0A 00 07 dd	Song Offset Measure	-100~-1, 1~100
FF 7F len 43 73 0C 00 [Data]	Style Name	len=Data length, [Data]=Style Name
FF 7F len 43 73 0D 00 [Data]	Song OTS	len=Data length, [Data]=OTS Data

YAMAHA XF META Event

Data Format	Parameter	Description
FF 7F 07 43 7B 01 cr ct bn bt	Chord Name	Refer to "Chord Control" in the MIDI Data Format (System Exclusive Messages)
FF 7F 05 43 7B 03 dd 08	Phrase Mark	See below
FF 7F 04 43 7B 04 dd	Max Phrase Number	01H~7FH
FF 7F 05 43 7B 0C rr ll	Guide Track Flag	rr=Melody Track 1 Ch, ll=Melody Track 2 Ch
FF 7F len 43 7B 21 00 pp [Data]	Lyrics Bitmap	pp=Display type 00H: Center 01H: Tile len=Data length, [Data]=File Path

[Phrase mark]

```
FF 7F 05 43 7B 03 xx 08    Phrase mark

    xx    Phrase mark    0hfccccc

        bit6(h)
            0:Right, 1:Left   Right hand/Left hand
        bit5(f)
            0:Channel available, 1:Channel not available
            Flag for whether channel information (bit 4 - 0) is valid or not
            Phrases common to all channels assigned to 1
        bit4-0(ccccc)
            CH(0:1ch~31:32ch) Channel information whose phrase mark is available
```

YAMAHA [Electronic Piano]
Model PF-1000 MIDI Implementation Chart
(Natural sound source)

Date : 1,May 2002
Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1 - 16	1 - 16	
	Changed	1 - 16	1 - 16	
Mode	Default	3	3	
	Messages	×	×	
	Altered	**************	×	
Note Number :		0 - 127	0 - 127	
	True voice	**************	0 - 127	
Velocity	Note ON	○ 9nH,v=1-127	○ 9nH,v=1-127	
	Note OFF	× 9nH,v=0	×	
After Touch	Key's	×	×	
	Ch's	×	×	
Pitch Bend		○	○ 0 - 24 semi	
Control Change	0,32	○	○	Bank Select
	1,5	×	×	
	7,10,11	○	○	
	6,38	○	○	Data Entry
	64,66,67	○	○	
	65	×	×	Portamento
	71-74	×	×	Sound Controller
	84	×	×	Portament Cntrl
	91,93	○	○	
	94	×	×	
	96-97	×	○	RPN Inc,Dec
	98-99	×	×	NRPN LSB,MSB
	100-101	○	○	RPN LSB,MSB
	120	×	○	All Sound Off
	121	×	○	Reset All Cntrls
Prog Change :		○ 0 - 127	○ 0 - 127	
	True #	**************		
System Exclusive		○	○	
Common	: Song Pos.	×	×	
	: Song Sel.	×	×	
	: Tune	×	×	
System Real Time	: Clock	○	○	
	: Commands	○	○	
Aux Messages	: All Sound Off	×	○ (120,126-127)	
	: Reset All Cntrls	×	○ (121)	
	: Local ON/OFF	×	×	
	: All Notes OFF	×	○ (123-125)	
	: Active Sense	○	○	
	: Reset	×	×	
Notes:				

Mode 1 : OMNI ON , POLY　　Mode 2 : OMNI ON ,MONO　　○ : Yes
Mode 3 : OMNI OFF, POLY　　Mode 4 : OMNI OFF,MONO　　× : No

YAMAHA [Electoronic Piano]
Model PF-1000 MIDI Implementation Chart
(XG sound source)

Date : 1,May 2002
Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1 - 16	1 - 16	
	Changed	1 - 16	1 - 16	
Mode	Default	3	3	
	Messages	×	×	
	Altered	**************	×	
Note Number		0 - 127	0 - 127	
	: True voice	**************	0 - 127	
Velocity	Note ON	○ 9nH,v=1-127	○ 9nH,v=1-127	
	Note OFF	× 9nH,v=0	×	
After Touch	Key's	×	×	
	Ch's	×	○	
Pitch Bend		○	○ 0 - 24 semi	
Control Change	0,32	○	○	Bank Select
	1,5,7,10,11	○	○	
	6,38	○	○	Data Entry
	64,65,66,67	○	○	
	71-74	○	○	Sound Controller
	84	○	○	Portament Cntrl
	91,93,94	○	○	Effect Depth
	96-97	×	○	RPN Inc,Dec
	98-99	○	○	NRPN LSB,MSB
	100-101	○	○	RPN LSB,MSB
	120	×	○	All Sound Off
	121	×	○	Reset All Cntrls
Prog Change		○ 0 - 127	○ 0 - 127	
	: True #	**************		
System Exclusive		○	○	
Common	: Song Pos.	×	×	
	: Song Sel.	×	×	
	: Tune	×	×	
System Real Time	: Clock	○	○	
	: Commands	○	○	
Aux Messages	: All Sound Off	×	○ (120,126-127)	
	: Reset All Cntrls	×	○ (121)	
	: Local ON/OFF	×	×	
	: All Notes OFF	×	○ (123-125)	
	: Active Sense	○	○	
	: Reset	×	×	
Notes:				

Mode 1 : OMNI ON , POLY　　Mode 2 : OMNI ON ,MONO　　○ : Yes
Mode 3 : OMNI OFF, POLY　　Mode 4 : OMNI OFF,MONO　　× : No

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